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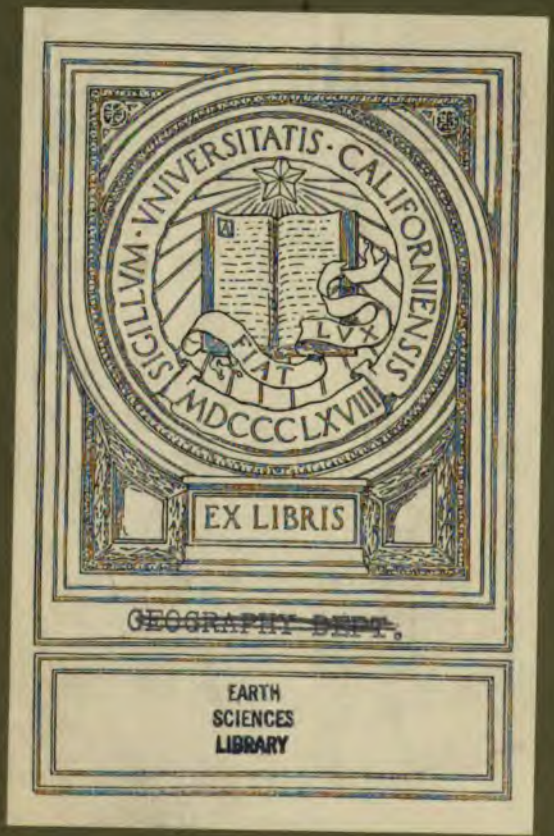
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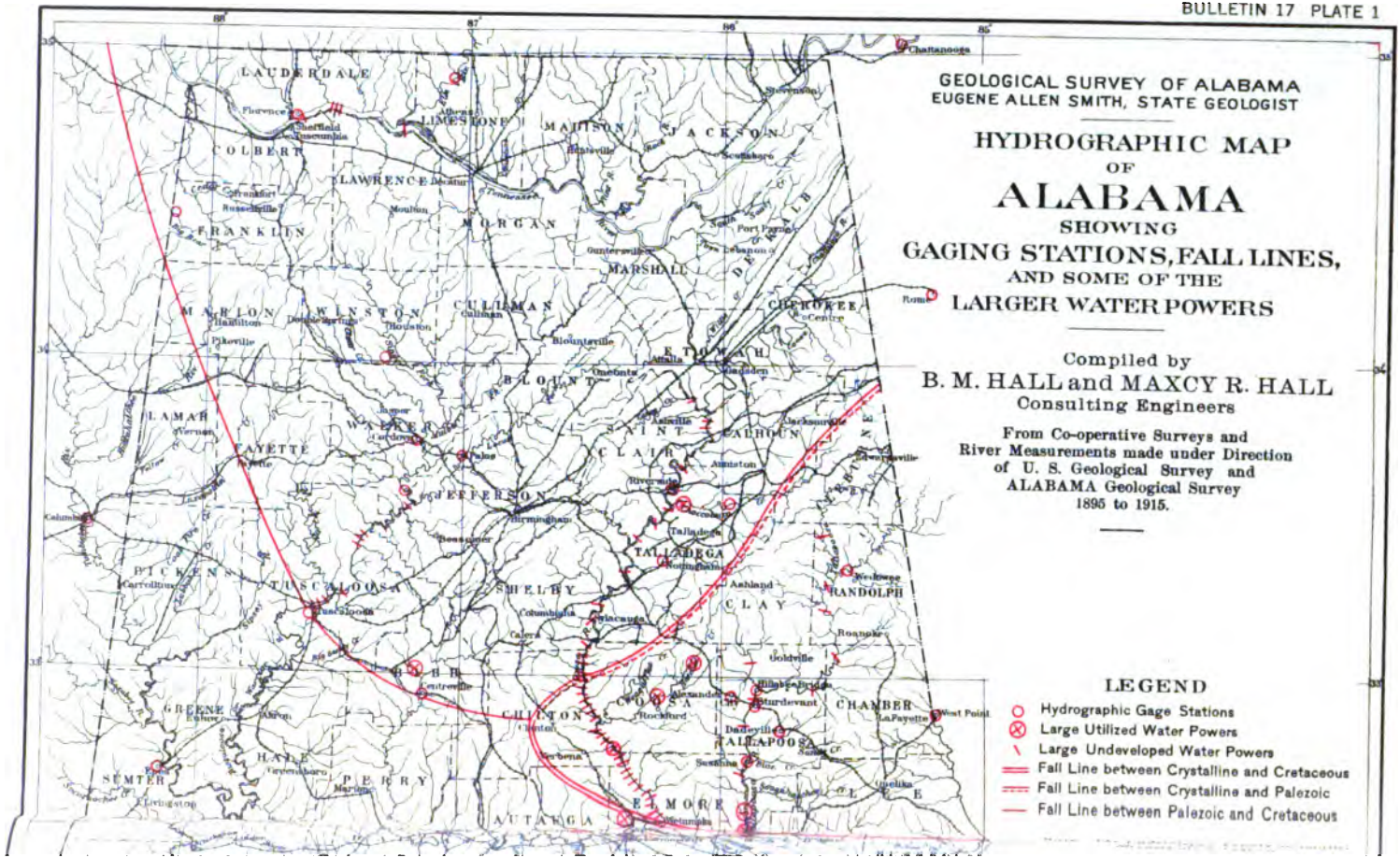
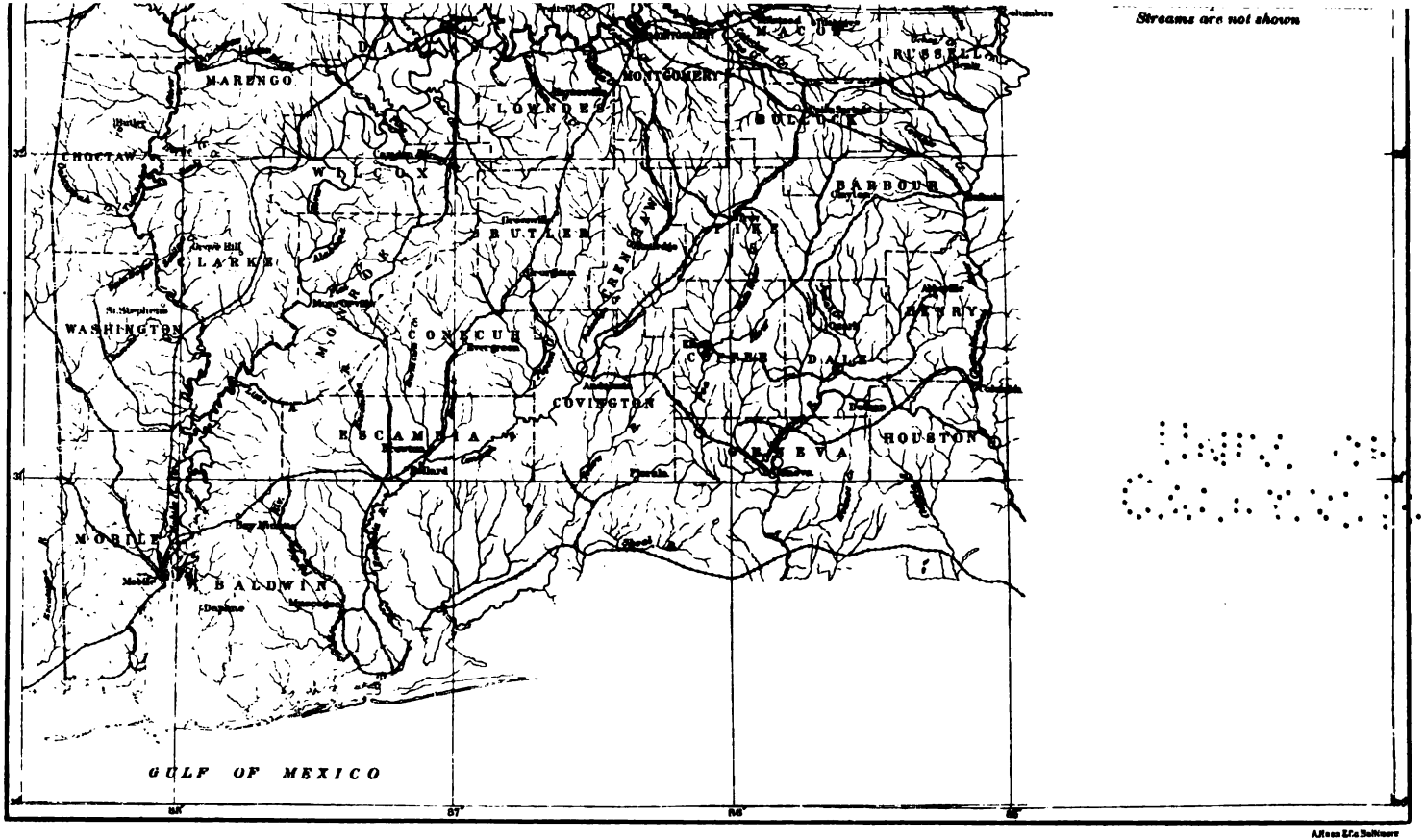

GEOLOGICAL SURVEY OF ALABAMA
EUGENE ALLEN SMITH, STATE GEOLOGIST
HYDROGRAPHIC MAP
OF
ALABAMA
SHOWING
GAGING STATIONS, FALL LINES,
AND SOME OF THE
LARGER WATER POWERS
Compiled by
B. M. HALL and MAXCY R. HALL
Consulting Engineers
From Co-operative Surveys and
River Measurements made under Direction
of U. S. Geological Survey and
ALABAMA Geological Survey
1895 to 1915.
LEGEND
Hydrographic Gage Stations
Large Utilized Water Powers
Large Undeveloped Water Powers
Fall Line between Crystalline and Cretaceous
Fall Line between Crystalline and Palezoic
Fall Line between Palezoic and Cretaceous
LAUDERDALE
COLBERT
LAWRENCE
FRANKLIN
MORGAN
MADISON
JACKSON
MARSHALL
DE KALB
CHEROKEE
MARION
WINSTON
CULLMAN
BLOUNT
ETOWAH
LAMAR
WALKER
FAYETTE
SAINT CLAIR
CALHOUN
JEFFERSON
TALLADEGA
PICKENS
TUSCALOOSA
SHELBY
CLAY
RANDOLPH
GREENE
HALE
BIBB
CHILTON
COOSA
CHAMBER
TALLAPOOSA
SUMTER
PERRY
AUTAUGA
ELMORE
Chattanooga
Florence
Decatur
Huntsville
Scottsboro
Russellville
Moulton
Gunterville
Rome
Hamilton
Jasper
Double Springs
Houston
Cullman
Blountsville
Oneonta
Attalla
Gadsden
Jacksonville
Anniston
Birmingham
Talladega
Ashland
Roanoke
Goldville
Columbiana
Calera
Alexander
Rockford
Dadeville
Sturdevant
West Point
LaFayette
Eutaw
Livingston
Marion
Selma
Montgomery
Wetumpka
Opelika


Streams are not shown
MARENGO
CHOCTAW
WASHINGTON
MOBILE
BALDWIN
LOWNDES
MONTGOMERY
BUTLER
CONECUH
ESCAMBIA
COVINGTON
CRENSHAW
MACON
RUSSELL
BARBOUR
PIKE
DALE
HENRY
HOUSTON
GENEVA
GULF OF MEXICO

G

W

GEOLOGICAL SURVEY OF ALABAMA
EUGENE ALLEN SMITH, *State Geologist*

BULLETIN NO. 17

SECOND REPORT

ON THE

Water Powers of Alabama

By
BENJAMIN M. HALL and MAXCY R. HALL
Consulting Engineers
Atlanta, Ga.

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RIVER GAGE HEIGHT OBSERVERS

Conecuh River at Beck, Ala.

A. W. Lambert* ..... Andalusia.
S. T. Dillard† ..... Andalusia.
J. F. Hicks† ..... Beck.

Coosa River at Riverside, Ala.

J. E. Whitehead* ..... Riverside.
Irvin Sullivan† ..... Riverside.
J. O. Thompson† ..... Riverside.
A. J. Morris† ..... Riverside.

Pea River at Pera, Ala.

W. G. Early† ..... Pink.

Tallapoosa River at Sturdivant, Ala.

A. L. Stowe* ..... Alexander City.
C. J. Stowe† ..... Alexander City.

Little Tallapoosa River near Wedowee, Ala.

Elbert Cummings† ..... Wedowee.

Tombigbee River at Epes, Ala.

George Haven† ..... Epes.

Choctawhatchee River at Newton, Ala.

J. M. Hodge† ..... Newton.

Big Bear River near Red Bay, Ala.

Ed. Bullen* ..... Red Bay.

*Observers in service April, 1916.
†Observers in service between 1911 and 1916.

Observations are made every day by these observers of the gage readings at the several stations. From these records when extended through sufficient time, the calculation of the available horse power to be obtained from the different streams is made.

991098

To His Excellency,

Governor Charles Henderson,

Montgomery, Alabama.

Sir:—I have the honor to transmit herewith a Second Report on the Water Powers of Alabama by B. M. Hall and Maxcy R. Hall, Consulting Engineers, with the recommendation that it be printed as Bulletin No. 17 of the Geological Survey of Alabama.

Very respectfully yours,

Eugene A. Smith,

State Geologist.

University of Alabama,

April 1st, 1916.

PREFACE

The first report on the Water Powers of Alabama was compiled by Mr. B. M. Hall in 1902 and was issued as Bulletin No. 7 of this Survey. The present report issued as Bulletin No. 17, is compiled by Messrs. B. M. Hall and Maxcy R. Hall, of the firm of Hall Brothers, Consulting Hydraulic Engineers, Atlanta, Ga.

The U. S. Geological Survey began measurements on the rivers of the Southern States in 1895 and it has been carried on continuously ever since; the District Engineers in charge of the work being as follows:

B. M. Hall, 1895 to 1902.
Maxcy R. Hall, 1902 to 1912.
Warren E. Hall, 1912 to the present.

The Alabama Geological Survey has co-operated in this work by paying for the services of local observers who read and recorded the daily gage heights at the river stations, and by rendering such other assistance as has been called for by the engineers of the U. S. Geological Survey. As will be noted in the text of this publication, the most prominent items brought out are: first, the quantity of water flowing in the streams, as shown by the daily, monthly and yearly records given in cubic feet per second; and secondly, the fall of the streams as shown under the head of "River Profiles." These are the necessary items for estimating the amount of water power available.

The local conditions at each power site, and the relation between the different power sites on each river determine the cost of development, the storage facilities, the best utilization of the power, and the importance of such utilization for the improvement of navigation. The chapter entitled "Summary of Water Powers," and the additional matter with reference to large developed water powers, conservation of water power, and the development of water power on navigable streams under Government franchises, bring out the important facts that must be considered in planning for future developments.

The big powers in Alabama are on the Tallapoosa, Coosa, Tennessee and Warrior Rivers.

Since the publication of Bulletin No. 7, the best actual developments are the big power plant at Lock 12 on the Coosa River, constructed by the Alabama Power Company, and the completion by the U. S. Engineer Corps of the wonderful Warrior system of locks and dams. The dam and power plant at Lock 12 on the Coosa River, is the first structure of an interlocking system of hydro-electric plants that is planned by the Alabama Power Company, for furnishing light and power to cities and industrial centers, and for the electrolytic manufacture of nitrates, phosphates, etc., for fertilizers and for explosives.

Under the heads of "River Profiles" and "Summary of Water Powers" a fairly complete description is given of the Warrior Lock and Dam System.

This system of locks and dams was begun at Tuscaloosa in 1888, under the supervision of Colonel Horace Harding, who, after the completion of locks 10, 11 and 12, was succeeded in 1896 by Mr. R. C. McCalla, U. S. Assistant Engineer.

Construction of Lock No. 1 on the Tombigbee River was begun in 1896, and work on other locks was taken up immediately.

On June 10, 1904, at the time of Mr. McCalla's death, six locks and dams had been completed and four others were in process of construction.

Locks 2, 3, 4, 5, and 6 were completed by the United States forces. Locks 7, 8, and 9 were built under contract with Christie, Lowe and Heyworth, of Chicago. Lock No. 13 was completed by B. H. Hardaway. Locks and dams Nos. 14 and 15 were built under contract with the Dravo Contracting Co., of Pittsburgh, Pa.

The contract for lock and dam No. 16 was let to Mr. B. H. Hardaway in 1909, and before it was completed, the contract for No. 17 was let to the Hardaway Contracting Co., of which Mr. B. H. Hardaway is President. Both structures were then completed by the contracting company in 1915.

As originally planned the lock and dam No. 17 was to be only 21-foot lift, but was changed to a 63-foot lift, and so completed. One difficulty to contend with was a coal seam underlying the dam site, which had to be cut through in order to get proper foundation. This magnificent structure represents the latest and best work of the U. S. Engineer Corps and reflects great credit on all concerned. The work was planned

and carried out under the general supervision of Col. Lansing H. Beach, Corps of Engineers U. S. Army, Division Engineer of New Orleans, La., and under the direction of Lieut. Col. Henry Jervey, Lieut. Col. C. A. F. Flagler and Lieut. Col. Charles Keller, Corps of Engineers U. S. Army, successively in charge of the Engineer Office at Mobile, Ala. It was under the direct supervision of Mr. George K. Little, U. S. Assistant Engineer, Tuscaloosa, Ala., with John B. Battle as Superintending Engineer, and S. T. Jones, Jr., as Resident Engineer on the work.

This lock and dam at the time of its completion, formed the largest single masonry structure in the South, containing over 300,000 cubic yards of concrete and representing an expenditure of over $3,000,000. Especial credit for the high grade of workmanship and the rapid construction of this development is due to Mr. B. H. Hardaway, of Columbus, Ga., who has during the past 20 years been identified either as engineer or as contractor with a great number of the most important engineering works of the South. As the opening of the Warrior system for through navigation depended on the completion of this work, time was considered a very important element in the contract. The Hardaway Contracting Co., though limited by law to 8 hours per day, installed such a complete and efficient construction plant that the whole work was completed more than two months before the expiration of the time allowed by contract.

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WATER POWERS OF ALABAMA

By Benjamin M. Hall and Maxcy R. Hall.

INTRODUCTION.

Prior to 1896 no systematic investigation had ever been made of the water supply and water powers of Alabama. In 1885, Prof. Dwight Porter, in his report of the Tenth Census of the United States, Volume XVI, upon the water powers of the eastern Gulf Slope, gave an excellent description of the most important water-power streams in the Mobile drainage basin, with such estimates of power as were possible from a reconnaissance and a study of rainfall, drainage areas and the navigation surveys made by the United States Engineer Corps. Beginning with the year 1896, the systematic stream measurements by the United States Geological Survey which have been made at stations maintained in co-operation with the Geological Survey of Alabama, the United States Army Engineers and the United States Weather Bureau, have furnished a reliable basis for water power estimates.

These data have been assembled by drainage areas and are published in a series of Water Supply Papers, each of which pertains to the surface-water resources of a group of adjacent areas, and contains the result of stream measurements for the calendar year. In these papers are embodied not only the data collected in the field, but also the results of computations based on these data, and other information that has a direct bearing on the subject, such as descriptions of basins and the streams draining them, utility of water resources, etc.

In 1902 the writers prepared for Dr. E. A. Smith, State Geologist, a report embodying all data obtainable at that time which was published by the Geological Survey of Alabama, as Bulletin No. 7. The present paper contains all of the stream measurement data of Bulletin No. 7, and also includes the results of hydrographic work from 1902 to September 30, 1915. It is intended to meet the demands of those who are interested in water powers and desire to have in one volume, the records and results of all the hydrographic investigations from 1896 to the present time.

GENERAL TOPOGRAPHIC AND GEOLOGIC FEATURES.

The five principal drainage basins of the State are as follows:

The Apalachicola basin, draining to the Chattahoochee and Apalachicola River and entering the Gulf of Mexico at Apalachicola, Fla.

The Choctawhatchee basin, draining to the Gulf through Choctawhatchee Bay.

The Escambia basin, draining to Escambia Bay and the Gulf near Pensacola, Fla.

The Mobile basin, including the waters of Tallapoosa, Coosa, Cahaba, Alabama, Black Warrior, and Tombigbee rivers and draining into the Gulf at Mobile, Ala.

The Tennessee basin, draining into Tennessee River and thence through the Mississippi to the Gulf at New Orleans.

The water powers of the State are mainly in the Mobile and Tennessee basins, which practically cover the entire State, except a small area in the southeast corner.

Geologically the State may be divided into three areas, which differ very greatly from one another in the hardness and durability of their rocks and show a corresponding difference in the profiles of their streams: First, the crystalline area underlain by igneous and metamorphic rocks; second, the Paleozoic area of hard sedimentary rocks, sandstone, limestone, and shale; and third, the Coastal Plain formed by Mesozoic and later sediments, chiefly soft limestones and unconsolidated sands and clays.

It may be said in a general way that the streams have their greatest falls in passing from an older to a younger geologic formation. Tallassee Falls, on the Tallapoosa, and Wetumpka Falls, on the Coosa, are at the point where the streams flow from the crystalline to the Cretaceous rocks. The falls on Talladega Creek and other small streams entering Coosa River from the southeast in Talladega, Calhoun, and Cleburne counties are at the contact of the crystalline and the Paleozoic. The shoals above Centerville on the Cahaba, above Tuscaloosa on the Black Warrior, and near Tuscumbia on Ten-

nessee River are at the point where the Paleozoic adjoins the Cretaceous. As Coosa River flows from the Paleozoic onto the crystalline near Talladega Springs, the shoals above this point reverse the general order by being made in passing from a younger to an older formation.

The crystalline area in Alabama is a triangle on the east side of the State, including Cleburne, Randolph, Chambers, Lee, Tallapoosa, Clay, Coosa, and parts of Elmore, Chilton, and Talladega counties. The "fall line" dividing the crystalline region from the Cretaceous and later formations of the Coastal Plain on the southwest runs from Columbus, Ga., crossing the Tallapoosa at Tallassee and the Coosa at Wetumpka. The northwestern boundary between the crystalline rocks and the Paleozoic formations recrosses the Coosa near Marble Valley post-office in Coosa County, and runs in a northeasterly direction toward Cedartown, Ga., crossing the Alabama line near Warner.

The crystalline area is a plateau ranging in elevations from 500 to 2,000 feet above sea level. The rivers flow over bed rock in a succession of shoals and eddies between high hills, and present conditions most favorable to the development of water powers with high head.

Tallapoosa River and its tributaries drain the larger part of the area. On Tallapoosa River there is a fall of 64 feet utilized as one power at Tallassee, and also a 40-foot dam about 3 miles above Tallassee. Similar and larger developments are contemplated at several different points above. The falls on Coosa River from Marble Valley to Wetumpka, 235 feet in 45 miles, and on numerous eastern tributaries of the Coosa, are in this area; as are also the western tributaries of the Chattahoochee between West Point and Columbus, Ga.

The Paleozoic area includes the greater portion of northern Alabama, being bounded on the southeast by the crystalline area, and on the southwest by the Cretaceous and later formations of the Coastal Plain. The line of division between the Paleozoic area and the Coastal Plain begins near Strasburg, in Chilton County, and runs northwesterly through Centerville, Tuscaloosa, and Tuscumbia to a point on Tennessee River near Waterloo. The Paleozoic area is somewhat higher than the Coastal Plain, and slightly lower than the crystalline area. Its rivers have considerable fall, as is shown by the following figures:

Coosa River from Greensport to Marble Valley falls 132 feet in 97 miles.

Cahaba River above Centerville has a fall of 116 feet in 21 miles.

Black Warrior River above Tuscaloosa has a fall of 100 feet in 30 miles.

Tennessee River above Waterloo has a fall of 155 feet in 41 miles, 85 feet of which is in a distance of only 14 miles.

There are many important creeks and many large limestone springs in this region on which no systematic measurements have yet been made. The area is rich in coal and iron, the most productive mines being in the drainage basins of Cahaba and Black Warrior rivers.

The Coastal Plain is a large area in southern and western Alabama, covering about two-thirds of the State, and is underlain by Cretaceous and younger formations. In the upper portion of this area the streams are not sluggish. Alabama River is navigable in the whole region, but the Cahaba falls 136 feet in a distance of 87 miles from Centerville to the mouth of the river; and the Black Warrior falls 59 feet in 132 miles from Tuscaloosa down to Demopolis.

There are many streams in this area that have a constant water supply and sufficient fall for the development of good water powers, such as Choctawhatchee River, Pea River and Conecuh River in the southeastern part of the State; also a number of creeks flowing into Chattahoochee River from Alabama, some of which have considerable fall, as they come from a high plateau.

Aside from certain surveys made to obtain maps and profiles of Tallapoosa River and Big Sandy Creek, the work done by the United States Geological Survey in this State deals exclusively with the amount of water flowing in the streams, and is intended to give a safe basis for estimates of discharge at all seasons of the year, and for several consecutive years, in order to arrive at the value of the streams for water power, irrigation, municipal supply, mining, navigation, etc.

Fortunately we are able to supplement this information with important surveys, plans and estimates made by the Corps of Engineers, U. S. A., in the interest of navigation, but incidentally planning for the development of many great water powers on the navigable streams.

WATER SUPPLY OF STREAMS.

MEASUREMENT OF FLOW.

In order to obtain a knowledge of the water supply, or amount of water flowing in the streams at all seasons, certain convenient stations have been established on important rivers and tributaries.

A gage for observing the stage of the river is established at a bridge or other place where the record of flow is to be made. This gage is a vertical staff, or some other device by which the height of water may be observed, and is read each day by a person living near by. The average of the gage readings, if more than one, in any day is used as the mean gage height for that day.

At various stages of the river one of the hydrographers of the Survey visits the station and measures with a current meter the amount of water flowing. This meter is primarily an instrument for measuring the velocity of moving water, and consists essentially of a wheel with vanes, which may be shaped like those of a windmill or of a screw, or with cups like those of an anemometer, the necessary qualification being that moving water shall readily cause the wheel of the meter to turn. Each meter is rated before use. The rating is done by moving the meter through still water at various observed speeds to determine the relation between the velocity with which the meter moves through the water and the revolutions of the wheel. This relation having been determined, the meter is used in running water, the revolutions per unit of time noted, and the velocity of the water computed.

Observations of depth of water are also made, and from them the area in cross section of each portion of the stream is computed; each partial area multiplied by the mean velocity of that area gives a partial discharge; the sum of the partial discharges is the total discharge of the stream.

Measurements of flow as outlined above are made covering a considerable range of gage height. They are then plotted

on coordinate paper, with gage heights for ordinates and discharges for abscissas, and a smooth curve, called the rating curve, is drawn through the points. From this curve a rating table is made which shows the discharge of the stream for any gage height.

The data necessary for the construction of a rating table for a gaging station as just stated are (1) the results of the discharge measurements, which include the record of stage of the river at the time of measurement, and the quantity of water flowing, and (2) a thorough knowledge of the conditions at and in the vicinity of the station.

The construction of the rating table depends on the following laws of flow for open permanent channels: (1) The discharge will remain constant so long as the conditions at and near the gaging station remain constant; (2) neglecting the change of slope due to the rise and fall of the stream, the discharge will be the same whenever the stream is at a given stage; (3) the discharge is a function of, and increases gradually with, the stage.

The plotting of results of the various discharge measurements, using gage heights as ordinates, and discharge as absciassas, will define a curve, which shows the discharge corresponding to any gage height. For the development of these curves there should be, therefore, a sufficient number of discharge measurements to cover the range of the stages of the stream.

The discharge curve is defined primarily by the measured discharges, and when these do not cover the entire range of gage height for which it is desired to make a rating table, the curve is sometimes extended to give approximate discharge values for the part not defined by measurements. This curve, under normal conditions, is concave toward the horizontal axis and is generally parabolic in form.

In preparing the rating table the discharge for each tenth on the gage is taken from the curve, and the differences between successive discharges are then adjusted so as to give a smooth curve. The finished rating table shows the discharge in cubic feet per second, corresponding to each tenth of a foot on the gage, and is used to supply the discharge values to the daily gage heights furnished by the observer in making up the daily or monthly estimate of flow.

DEFINITIONS.

The volume of water flowing in a stream, the "run-off," is expressed in various terms, each of which is associated with a certain class of work. These terms may be divided into two classes: Those which represent a rate of flow, as second-foot, gallons per minute, and run-off in second-feet per square mile, and those which represent actual quantities of water, as run-off in depth in inches. They may be defined as follows:

"Second-foot" is an abbreviation for cubic foot per second and is the quantity of water flowing in a stream 1 foot wide, 1 foot deep, at the rate of 1 foot per second. It is generally used as a fundamental unit from which the others are computed.

"Gallons per minute" is generally used in connection with pumping and city water supply.

"Second-feet per square mile" is the average number of cubic feet of water flowing per second from each square mile of area drained, on the assumption that the run-off is distributed uniformly both as regards time and area.

"Run-off in inches" is the depth to which the drainage area would be covered if all the water flowing from it in a given period were conserved and uniformly distributed over the surface. It is used for comparing run-off with rainfall, which is usually expressed in depth in inches.

CONVENIENT EQUIVALENTS.

The following is a list of convenient equivalents for use in hydraulic computations:

Table for converting discharge in second-feet per square mile into run-off in depth in inches over the area.

Second-feet per square mile.	Run-off in inches.				
	1 day.	28 days.	29 days.	30 days.	31 days.
1	0.08719	1.041	1.079	1.116	1.153
2	.07438	2.083	2.157	2.231	2.306
3	.11157	3.124	3.236	3.347	3.459
4	.14876	4.165	4.314	4.463	4.612
5	.18595	5.207	5.393	5.578	5.764
6	.22314	6.248	6.471	6.694	6.917
7	.26033	7.289	7.550	7.810	8.070
8	.29752	8.331	8.628	8.926	9.223
9	.33471	9.372	9.707	10.041	10.376

Note.—For partial month multiply the values for one day by the number of days.

Table for converting discharge in second-feet into run-off in acre-feet.

Second-feet.	Run-off in acre-feet.				
	1 day.	28 days.	29 days.	30 days	31 days.
1	1.983	55.54	57.52	59.50	61.49
2	3.967	111.1	115.0	119.0	123.0
3	5.950	166.6	172.6	178.5	184.5
4	7.934	222.1	230.1	238.0	246.0
5	9.917	277.7	287.6	297.5	307.4
6	11.90	333.2	345.1	357.0	368.9
7	13.88	388.8	402.6	416.5	430.4
8	15.87	444.3	460.2	476.0	491.9
9	17.85	499.8	517.7	535.5	553.4

Note.—For partial month multiply values for one day by the number of days.

1 second-foot equals 40 California miner's inches (law of March 28, 1901).
1 second-foot equals 38.4 Colorado miner's inches.
1 second-foot equals 40 Arizona miner's inches.
1 second-foot equals 7.48 United States gallons per second; equals 448.8 gallons per minute; equals 646,317 gallons for one day.
1 second-foot for one year covers 1 square mile 1.131 feet or 13.572 inches deep.
1 second-foot for one year equals 31,536,000 cubic feet.

1 second-foot equals about 1 acre-inch per hour.
1 second-foot for one day equals 86,400 cubic feet; equals 1.98 acre-feet.
100 United States gallons per minute equals 0.223 second-foot.
100 United States gallons per minute for one day equals 0.442 acre-foot.
1,000,000 United States gallons per day equals 1.55 second-feet.
1,000,000 United States gallons equals 3.07 acre-feet.
1,000,000 cubic feet equals 22.95 acre-feet.
1 acre-foot equals 325,850 gallons.
1 inch deep on 1 square mile equals 2,323,200 cubic feet.
1 inch deep on 1 square mile equals 0.0737 second-foot per year.
1 foot equals 0.3048 meter.
1 mile equals 1.60935 kilometers.
1 mile equals 5,280 feet.
1 acre equals 0.4047 hectare.
1 acre equals 43.560 square feet.
1 acre equals 209 feet square, nearly.
1 square mile equals 2.59 square kilometers.
1 cubic foot equals 0.0283 cubic meter.
1 cubic foot of water weighs 62.5 pounds.
1 cubic meter per minute equals 0.5886 second-foot.
1 horsepower equals 550 foot-pounds per second.
1 horsepower equals 76.0 kilogram-meters per second.
1 horsepower equals 746 watts.
1 horsepower equals 1 second-foot falling 8.80.
1 1/3 horsepower equal about 1 kilowatt.

To calculate water power quickly: $\frac{\text{Sec.-ft.} \times \text{fall in feet}}{11}$ = net horsepower on water wheel realizing 80 per cent of theoretical power.

EXPLANATION OF DATA.

For each regular current-meter gaging station the following data, so far as available, are given: Description of the station, list of discharge measurements, table of daily gage heights, rating table or a table of daily discharge, table of monthly and yearly discharge and run-off.

In addition to statements regarding the location and installation of current-meter stations, the descriptions give information in regard to any conditions which may affect the constancy of the relation of gage height to discharge, covering such points as logging, shifting channels, and backwater. Statements are also made regarding the accuracy and reliability of the data.

The table of daily gage heights records the daily fluctuations of the surface of the river as found from the mean of the gage readings taken each day, usually in the morning and in the evening. The gage height given in the table represents the elevation of the surface of the water above the zero of the gage. Attention is called to the fact that the zero of the gage is placed at an arbitrary datum and has no relation to zero flow or the bottom of the river. In general the zero is located somewhat below the lowest known flow, so that negative readings shall not occur.

The discharge measurements and gage heights are the base data from which rating tables, daily discharge tables, and monthly discharge tables are computed.

The rating table gives, either directly, or by interpolation, the discharge in second-feet corresponding to every stage of the river recorded during the period for which it is applicable. It is not published for the years when the tables of daily discharge are given, but can be determined from the tables of daily gage heights and daily discharge by plotting gage heights in feet as ordinates and discharge in second-feet as abscissas.

The table of daily discharges gives the discharges in second-feet corresponding to the observed gage heights as determined from the rating tables.

In the table of monthly discharge the column headed "Maximum" gives the mean flow, as determined from the rating table, for the day when the mean gage height was highest. As the gage height is the mean for the day, it does not indicate correctly the stage when the water surface was at crest height and the corresponding discharge was consequently larger than given in the maximum column. Likewise in the column at "Minimum" the quantity given is the mean flow for the day when the mean gage height was lowest. The column headed "Mean" is the average flow in cubic feet for each second during the month. On this the computations for the remaining columns are based.

The base data presented in this report, unless otherwise stated in description of station, have been collected by the methods commonly used at current-meter gaging stations and described in standard text books.

GAGING STATIONS.

The following list comprises the gaging stations regularly maintained by the United States Geological Survey and cooperative parties, in the State of Alabama, or pertaining to Alabama powers:

Apalachicola River basin:
Chattahoochee River at West Point, Ga., 1896-1915.
Chattahoochee River at Alaga, Ala., 1908-1912.

Choctawhatchee River basin:
Choctawhatchee River near Newton, Ala., 1906-08; 1911-12.
Choctawhatchee River near Geneva, Ala., 1904.
Double Bridge Creek at Geneva, Ala., 1904.
Pea River at Pera, Ala., 1904-1913.
Pea River at Elba, Ala., 1906.

Escambia River basin:
Conecuh River at Beck, Ala., 1904-1915.

Mobile River basin:
Coosa River at Rome, Ga., 1897-1903.
Coosa River at Riverside, Ala., 1896-1915.
Alabama River at Selma, Ala., 1900-1913.
Choccolocco Creek at Jenifer, Ala., 1903-1908.
Talladega Creek at Nottingham, Ala., 1900-1904.
Tallapoosa River at Sturdevant, Ala., 1900-1915.
Tallapoosa River near Susanna, Ala., 1900-1901.
Tallapoosa River at Milstead, Ala., 1897-1901.
Little Tallapoosa River near Wedowee, Ala., 1913-1914.
Hillabee Creek near Alexander City, Ala., 1900-1903.
Big Sandy Creek near Dadeville, Ala., 1900-1901.
Cahaba River at Centerville, Ala., 1901-1908.
Tombigbee River at Columbus, Miss., 1905-1912.
Tombigbee River at Epes, Ala., 1900-1913.
Black Warrior River near Cordova, Ala., 1900-1912.
Black Warrior River near Coal, Ala., 1908-1910.
Black Warrior River at Tuscaloosa, Ala., 1889-1905.
Clear Creek near Elk, Ala., 1904-5.
Locust Fork of Black Warrior River at Palos, Ala., 1901-1905.

Village Creek near Mulga, Ala., 1909.
Camp Branch near Ensley, Ala., 1908-1910.
Venison Branch near Mulga, Ala., 1908-9.

Tennessee River basin:
Tennessee River at Chattanooga, Tenn., 1890-1913.
Tennessee River at Florence, Ala., 1895-1915.
Elk River near Elkmont, Ala., 1904-1908.
Big Bear Creek near Red Bay, Ala., 1913-1915.

Apalachicola River Drainage Basin.

DESCRIPTION.

Only a small portion of the Apalachicola basin lies in the State of Alabama. Chattahoochee River, however, which is the principal stream of the Apalachicola basin, forms the eastern boundary of Alabama from West Point, Ga., down to the southeast corner of the State, and includes in this distance, very valuable power sites between West Point and Columbus, Ga.

The following gaging stations have been maintained on this portion of the Chattahoochee River:

Chattahoochee River at West Point, Ga., 1896-1915:
Chattahoochee River at Alaga, Alabama, 1908-1912.

CHATTAHOOCHEE RIVER AT WEST POINT, GA.

Location.—At the Montgomery Street Bridge, West Point, Ga., half a mile below the mouth of Oseligee Creek and about 3 miles above Long Cane Creek.

Records available.—July 30, 1896, to September 30, 1915.

Drainage area.—3,300 square miles.

Gage.—Standard chain gage attached to the highway bridge; datum unchanged; also a staff gage set on a different datum, located at a point about half a mile upstream, just below the mouth of Oseligee Creek, about 300 feet east of the West Point waterworks pumping plant. The new gage has been used since October 21, 1912.

Channel.—Deep; current sluggish at low stages. Bottom shifts considerably, but the shifting does not affect discharge rating. The right bank is high and overflows only at high water, when most of the town is flooded; the left bank is somewhat lower and overflows for about 800 feet at a gage height of 20 feet.

Discharge measurements.—Made from the downstream side of the highway bridge; also made from a boat at a section

near the new gage; no tributaries enter between the two sections.

Artificial control.—The operation of power plants at points above causes some diurnal fluctuation. The Langdale Dam, 5 miles below the station, forms a pond reaching back as far as West Point. This affected the gage heights at the highway bridge, making the old rating valueless for 1911 and 1912. The new gage established in October, 1912, is not affected by backwater.

Accuracy.—A new rating was developed for the old gage at the highway bridge applying to the changed conditions during 1912, and may also be used for 1911. A rating has also been developed for the new staff gage covering low and medium stages, and has been used in computing daily discharges since October 21, 1912.

Discharge measurements of Chattahoochee River at West Point.

Date.	Gage height. Feet.	Discharge. Sec.-feet.	Date.	Gage height. Feet.	Discharge. Sec.-feet.
1895			1899		
October 22	1.76	1,404	September 12	3.10	3,689
1896			October 18	2.07	2,088
June 29		2,067	December 16	3.49	4,111
July 30	2.45	2,430			
August 14	1.72	1,594	1900		
September 5	1.20	1,006	January 20	4.65	6,574
September 25	1.15	1,030	February 24	4.92	7,158
October 28	1.75	1,642	August 22	2.80	2,755
1897			December 4	3.98	5,224
January 23	6.66	11,920			
April 26	3.70	5,448	1901		
May 4	4.13	6,230	March 12	4.34	6,007
May 19	3.00	3,557	August 6	3.00	3,435
June 5	2.90	3,253	October 28	2.80	2,910
June 19	2.59	2,934			
July 8	3.03	3,470	1902		
July 23	5.01	7,853	January 15	3.50	4,364
August 14	2.12	1,915	July 25	2.00	1,916
September 4	1.80	1,690			
September 22	1.20	985	1903		
November 9	1.71	1,845	January 6	3.95	5,056
November 23	1.60	1,822	April 22	5.89	8,713
December 17	3.14	3,989	June 5	9.70	20,960
1898			June 6	11.30	25,620
January 18	2.45	2,643	July 30	3.46	4,761
February 18	2.48	2,464	July 31	4.07	5,993
March 17	3.03	3,571	September 23	2.40	2,451
April 6	9.20	19,890	September 24	2.32	2,416
April 21	2.90	2,723	December 17	2.37	2,460
April 26	4.52	6,704			
May 17	2.15	1,975	1904		
June 11	1.40	1,161	February 3-4	2.80	3,005
July 6	2.27	2,451	April 7	2.83	3,144
August 5	8.82	18,510	April 7	2.88	3,155
September 2	7.55	15,070	April 14	2.90	3,179
September 3	11.25	25,200	April 14	2.90	3,180
October 5	18.90	87,580	June 20	1.56	1,298
October 29	3.38	4,409	June 20	1.56	1,306
November 29	4.00	5,394	September 2	1.46	1,203
1899			September 3	2.00	1,862
March 14	5.30	8,726	September 29	1.20	1,005
April 24	4.72	7,144	September 30	1.27	1,010
May 13	3.80	4,828	December 6	2.70	2,808
June 26	3.06	3,234			

Discharge measurements of Chattahoochee River at West Point, Ga.—Continued.

Date.	Gage height. Feet.	Discharge. Sec.-ft.
1905.		
March 24	3.28	4,026
June 6	2.30	2,048
October 28	2.30	2,252
1906.		
January 24	12.91	30,100
January 24	11.92	27,100
January 25	9.20	18,100
January 26	6.14	10,300
February 15	3.60	4,390
May 10	3.75	4,910
June 9	2.78	3,120
November 10	3.25	3,720
1907.		
March 22	3.56	4,530
March 23	3.58	4,560
July 26	2.01	1,840
1908.		
March 30	4.78	6,850
Decemhber 5	2.79	2,940
1909.		
April 2	4.70	6,890
April 3	4.58	6,670
June 3	5.08	7,840
June 5	3.00	14,900
August 24	2.70	3,130
August 25	2.80	3,150
August 25	2.70	3,020
August 26	2.42	2,580
August 26	2.50	2,620
August 27	2.69	2,900
August 27	2.70	2,910
1910.		
May 7	2.87	2,840
August 25	2.28	2,250
August 26	2.27	2,100
November 4	1.80	1,690
November 5	1.96	1,580
1911.		
February 18	3.58	4,190
February 18	3.57	3,980
April 6	3.18	14,100
April 7	3.49	15,100
1912.		
January 25**	*4.01	4,320
August 26	4.50	6,000
August 31	3.20	3,050
September 6	2.90	2,560
September 18	3.40	3,360
September 19	3.80	4,120
September 24	4.50	5,650
October 21	5.60	8,400
November 21	2.99	2,650
November 30**	2.94	2,560
1913.		
February 12	4.29	5,470
February 12	4.38	5,390
February 12	4.34	5,500
February 12	4.37	5,890
February 13	6.78	11,400
February 13	6.61	11,100
1915.		
February 24	7.05	12,000
February 25	8.56	15,500
December 21	12.97	26,400

**Measurement made from highway bridge at old station.
*Gage height taken at old gage on highway bridge.

Daily gage height, in feet, of Chattahoochee River at West Point, Ga.

Day.	Aug.	Sept.	Oct.	Nov.	Dec.	Day.	Aug.	Sept.	Oct.	Nov.	Dec.
1896						1896					
1	2.7	1.3	4.1	1.7	4.2	17	1.6	0.85	1.1	3.0	3.0
2	3.9	1.2	4.0	2.0	4.0	18	1.55	.8	1.1	2.6	3.0
3	4.5	1.1	3.0	3.25	3.75	19	1.5	.8	1.1	2.55	2.9
4	6.0	1.05	2.6	3.0	3.6	20	1.45	.8	1.1	2.4	2.8
5	5.5	1.0	2.4	9.2	3.4	21	1.4	.8	1.15	2.25	2.7
6	5.0	1.0	2.0	7.6	3.2	22	1.4	3.3	1.1	2.25	2.6
7	3.65	1.0	1.9	5.5	3.1	23	1.3	3.0	1.5	2.2	2.4
8	3.2	1.05	1.5	4.3	3.1	24	1.2	2.5	1.75	2.2	2.2
9	2.75	1.1	1.3	3.45	3.05	25	3.0	2.0	1.75	2.9	2.15
10	2.6	1.05	1.25	2.8	3.0	26	2.0	1.7	1.7	1.9	2.1
11	2.2	.95	1.25	2.0	2.9	27	1.8	1.6	1.65	1.8	2.1
12	2.0	.85	1.2	2.15	2.8	28	1.75	1.4	1.6	2.0	2.05
13	1.85	.85	1.15	6.3	2.65	29	1.6	3.6	1.5	4.0	2.0
14	1.7	.9	1.15	5.0	2.5	30	1.5	4.2	1.5	4.3	1.95
15	1.6	.9	1.15	4.5	3.0	31	1.4	.....	1.45	.....	1.9
16	1.6	.85	1.15	3.3	3.1						

Daily gage height, in feet, of Chattahoochee River at West Point, Ga.,—Cont'd

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1897												
1	1.9	3.15	3.65	4.0	3.9	2.65	1.9	2.9	1.8	1.1	1.3	2.5
2	1.9	4.4	3.6	4.0	4.0	2.7	1.9	3.0	1.7	1.1	1.3	2.5
3	1.9	7.0	3.5	3.95	3.8	2.8	2.0	3.2	1.65	1.05	1.3	2.5
4	1.95	7.4	3.5	4.4	3.75	2.85	2.3	2.8	1.65	1.05	1.5	2.4
5	2.0	7.1	3.6	3.5	3.65	2.9	3.0	2.8	1.6	1.0	2.3	2.6
6	2.0	6.0	4.1	10.2	3.6	2.95	3.5	2.5	1.6	1.0	2.0	2.75
7	2.0	6.0	10.95	11.0	3.6	2.8	2.5	2.4	1.5	1.0	1.8	2.85
8	1.95	5.2	9.3	10.5	3.6	2.7	3.0	2.2	1.5	.95	1.65	2.6
9	1.95	5.0	7.1	8.0	3.55	2.6	3.0	2.0	1.4	.95	1.7	2.6
10	1.9	4.7	5.5	7.1	3.5	2.6	2.9	1.9	1.4	.95	1.9	2.5
11	1.9	4.9	5.3	6.5	3.5	2.65	2.9	2.9	1.4	1.15	1.9	2.4
12	1.95	7.12	6.2	6.3	3.55	2.65	2.8	3.0	1.35	1.5	1.7	2.4
13	1.95	6.5	10.7	6.0	3.75	2.6	2.4	2.7	1.35	3.0	1.7	2.5
14	2.1	6.1	14.1	5.3	3.6	2.5	2.2	2.3	1.3	2.9	1.6	4.3
15	2.2	4.7	12.9	5.7	3.4	2.45	2.0	2.25	1.3	2.5	1.6	3.75
16	4.0	4.65	11.0	5.5	3.2	2.4	1.8	2.0	1.3	1.9	1.6	3.5
17	4.05	4.6	10.9	5.3	3.1	2.5	1.9	2.95	1.25	1.75	1.5	3.1
18	3.35	4.5	10.0	5.0	3.0	2.9	2.9	3.5	1.25	1.65	1.5	3.05
19	3.3	4.5	9.0	4.5	3.0	2.7	3.0	4.0	1.2	1.6	1.55	3.1
20	5.4	4.35	8.5	4.2	2.9	2.6	9.0	4.5	1.2	1.4	1.4	3.9
21	3.2	4.35	3.3	4.2	2.85	2.55	11.4	6.2	1.2	1.5	1.3	4.0
22	7.3	4.45	3.1	4.1	2.8	2.55	8.0	3.1	1.2	1.6	1.2	3.8
23	6.5	4.8	3.0	4.0	2.75	2.5	5.4	7.0	1.2	1.4	1.1	3.7
24	4.8	5.6	3.5	3.8	2.7	2.5	4.4	6.1	1.2	1.4	1.05	3.7
25	3.7	5.5	7.6	3.85	2.7	2.5	4.2	3.5	1.15	1.3	1.05	3.65
26	3.5	4.0	5.0	3.7	2.7	2.6	4.1	2.8	1.15	1.3	1.1	3.6
27	3.2	3.9	4.95	3.65	2.7	2.3	4.0	2.4	1.15	1.2	1.9	3.5
28	3.0	3.3	4.7	3.6	2.65	2.15	3.6	2.1	1.1	1.2	2.65	3.2
29	3.0	.....	4.5	3.6	2.65	2.0	3.5	2.1	1.1	1.4	2.6	2.8
30	2.95	.....	4.3	3.3	2.65	1.9	3.0	1.9	1.1	1.4	2.5	2.6
31	3.2	.....	4.0	.....	2.65	.....	2.8	1.9	.....	1.3	.....	2.5
1898												
1	2.4	3.05	2.8	6.3	3.2	1.7	1.25	3.4	3.75	1.8	3.33	3.65
2	2.35	2.9	2.8	5.1	3.15	1.65	1.15	2.9	3.9	1.35	3.35	3.6
3	2.2	2.8	2.8	3.4	3.15	1.65	1.1	3.0	12.0	2.9	3.35	5.25
4	2.2	2.6	2.8	3.2	3.0	1.65	1.1	6.0	14.5	5.6	3.3	5.0
5	2.2	2.2	3.1	7.0	2.8	1.5	1.05	7.6	15.3	11.0	3.3	4.0
6	2.15	2.2	3.15	9.2	2.6	1.5	2.2	9.15	18.2	14.5	3.45	4.0
7	2.15	2.2	3.0	9.5	2.4	1.45	2.35	8.2	17.5	12.0	3.5	4.0
8	2.15	2.1	2.9	8.2	2.3	1.45	2.7	6.3	9.0	13.0	3.55	3.8
9	2.15	2.1	2.5	6.0	2.3	1.4	3.5	5.1	6.2	10.0	3.6	3.75
10	2.1	2.1	2.2	5.4	2.3	1.4	4.0	4.8	4.5	7.5	3.75	3.7
11	2.15	2.1	2.1	5.0	2.2	1.4	3.8	3.0	4.0	4.1	3.75	3.6
12	3.0	2.1	2.1	3.5	2.2	1.4	3.0	3.4	3.75	3.9	3.75	3.6
13	2.75	2.05	2.1	2.95	2.2	1.6	2.8	6.75	3.6	3.2	3.35	3.6
14	2.6	2.05	2.1	2.8	2.2	1.65	2.7	5.2	3.4	3.2	3.3	3.4
15	2.6	2.0	3.3	2.6	2.15	1.9	3.0	4.6	3.4	3.15	3.9	3.35
16	2.75	2.0	3.2	2.4	2.15	2.0	3.3	4.0	3.4	3.0	5.6	3.35
17	2.9	2.0	3.0	2.4	2.15	1.8	4.0	4.1	3.2	3.0	5.75	3.35
18	2.95	2.1	2.8	2.35	2.15	1.8	3.6	5.0	3.0	5.0	5.0	3.3
19	2.75	2.6	2.6	2.35	2.1	1.7	3.0	4.2	2.4	5.5	5.0	3.3
20	2.7	2.6	2.4	3.0	2.1	1.55	2.7	3.8	2.0	5.4	4.9	3.25
21	2.8	2.5	2.15	2.75	2.1	1.5	2.2	3.5	1.9	4.9	4.8	3.25
22	3.2	2.5	2.15	2.6	2.1	1.75	2.3	3.4	1.9	4.8	4.3	4.0
23	2.8	2.5	2.15	4.0	2.0	2.0	2.4	3.3	1.9	4.5	4.0	5.65
24	2.9	2.5	2.15	7.0	1.9	2.1	4.0	3.25	2.9	4.5	3.7	5.0
25	2.9	2.45	2.1	5.3	1.85	2.0	7.6	3.2	3.0	4.0	3.7	4.5
26	3.0	2.4	2.1	4.0	2.5	2.1	5.5	3.2	2.75	3.6	3.7	4.4
27	6.0	2.3	2.1	3.6	2.0	2.2	4.1	5.6	2.5	3.4	3.65	4.2
28	5.5	2.3	2.1	3.4	1.8	1.75	4.0	10.6	2.05	3.4	3.6	4.0
29	4.05	.....	3.2	3.4	1.7	1.5	5.6	5.4	1.9	3.4	3.3	3.8
30	3.6	.....	4.1	3.2	1.7	1.4	6.0	3.8	1.8	3.33	3.7	3.8
31	3.1	.....	4.3	.....	1.7	.....	4.2	3.5	.....	3.33	.....	3.75

Daily gage height, in feet, of Chattahoochee River at West Point.

Day.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1899												
1	4.3	4.5	14.5	10.0	4.3	3.6	3.0	2.5	2.4	1.1	2.1	4.4
2	4.35	4.65	12.7	7.7	4.2	3.3	2.8	2.3	2.0	1.3	2.1	4.3
3	4.2	10.2	6.5	7.0	4.1	3.2	2.7	2.8	2.9	1.8	1.9	3.4
4	4.1	8.3	5.8	7.15	3.9	3.1	2.5	2.8	2.4	1.1	1.9	3.4
5	4.0	7.2	6.4	6.7	3.8	3.0	2.4	2.7	2.1	1.4	1.9	3.4
6	4.0	5.8	7.0	6.4	3.75	3.0	2.4	2.8	3.0	1.5	1.9	3.2
7	5.5	9.1	6.1	6.9	3.75	2.9	2.4	2.8	2.9	1.8	1.9	3.1
8	5.75	13.3	5.6	7.3	3.7	2.8	2.8	2.7	2.0	2.4	1.9	3.1
9	5.5	13.0	5.2	6.8	3.8	2.8	2.9	2.4	1.9	2.7	1.9	2.9
10	5.6	9.05	5.0	6.3	4.0	3.0	3.0	2.3	2.9	2.6	1.9	2.6
11	7.0	6.3	4.9	6.0	3.8	3.1	3.2	2.1	2.5	2.3	1.9	2.4
12	8.8	5.9	4.85	5.4	3.7	3.2	2.5	2.2	2.1	2.3	1.9	3.5
13	5.9	5.2	4.9	5.15	3.65	3.3	2.3	2.3	2.4	2.1	1.9	4.0
14	5.4	4.75	5.0	5.1	3.65	4.0	2.3	2.4	2.6	1.9	1.9	4.6
15	6.0	5.0	5.1	5.05	3.65	4.1	2.3	2.0	2.8	2.4	2.1	4.1
16	5.2	5.2	10.5	5.0	3.6	3.6	2.1	2.5	2.4	2.5	2.2	3.6
17	5.0	5.1	12.3	4.95	3.6	3.1	2.3	3.0	1.6	2.3	2.2	3.1
18	4.9	4.6	13.5	4.9	3.5	3.0	2.3	3.2	1.6	2.3	2.1	3.0
19	4.75	4.3	12.1	4.8	3.2	2.9	2.5	2.9	1.6	2.6	2.1	2.8
20	4.5	4.0	10.75	4.6	3.1	2.8	2.7	2.4	1.5	2.9	2.1	2.8
21	4.2	3.75	8.2	4.45	3.1	2.8	3.0	2.6	1.7	3.3	2.1	2.8
22	4.1	3.6	7.5	4.6	3.05	2.6	3.6	2.9	1.9	2.4	1.9	2.8
23	4.05	3.6	6.9	4.65	3.05	2.5	4.2	3.0	2.3	2.4	2.0	3.2
24	3.9	3.5	7.2	4.7	4.3	2.7	4.7	3.2	1.1	2.3	2.2	6.0
25	3.6	3.5	7.0	4.8	4.1	2.9	3.6	3.5	1.2	2.5	3.0	5.7
26	3.6	3.5	6.5	5.6	3.8	3.4	3.0	2.0	1.2	2.1	3.1	5.6
27	3.5	10.7	6.2	6.05	3.6	3.5	3.2	2.5	1.2	2.0	3.4	4.1
28	3.65	15.2	6.15	5.1	3.4	3.2	5.9	3.1	1.3	2.1	3.2	3.6
29	3.75	.....	6.8	5.0	3.3	3.0	3.3	3.6	1.8	2.1	3.5	3.4
30	4.0	.....	6.3	4.7	3.25	3.2	2.9	2.9	1.9	2.2	4.2	3.3
31	4.75	.....	7.15	.....	4.0	.....	2.7	2.1	.....	2.1	.....	3.2
1900												
1	3.00	2.80	5.90	4.10	4.90	3.40	6.30	6.40	4.10	2.60	2.80	3.70
2	2.80	2.60	4.70	4.10	4.80	3.30	9.40	5.70	6.10	2.50	2.70	3.20
3	2.50	2.40	4.60	4.05	4.60	3.30	7.80	5.00	4.50	2.50	4.60	3.10
4	2.50	3.00	5.00	4.05	4.40	3.60	7.00	4.50	3.20	2.60	4.20	3.90
5	2.40	3.00	4.80	4.00	4.30	5.00	6.50	4.00	3.00	3.80	4.30	4.50
6	2.80	4.60	4.50	3.95	4.20	4.80	6.20	3.60	2.90	4.00	3.60	5.80
7	2.90	4.50	4.20	3.90	4.00	4.30	5.40	3.40	2.80	4.20	3.40	5.90
8	2.80	4.20	5.00	3.90	3.80	5.10	5.00	3.20	2.70	3.70	3.20	4.60
9	2.80	4.60	8.10	3.85	3.60	8.10	5.10	3.10	2.60	3.50	3.10	3.90
10	2.70	7.30	7.50	3.80	3.60	8.50	4.20	3.00	2.50	3.40	3.00	3.60
11	3.40	8.60	6.30	4.90	3.50	5.80	4.00	2.90	2.40	3.40	3.00	3.30
12	4.70	12.20	5.60	6.10	3.40	4.60	3.60	2.80	2.30	3.60	2.90	3.20
13	4.40	19.12	4.70	6.70	3.40	6.50	5.40	3.40	2.20	3.80	2.90	3.10
14	4.70	19.50	4.50	6.00	3.40	3.90	5.00	3.80	2.30	3.70	2.80	4.90
15	4.90	18.50	4.30	5.50	3.30	4.20	4.80	3.00	9.20	3.20	2.80	4.20
16	4.60	12.40	4.50	4.20	3.30	6.40	4.50	3.00	13.60	3.00	2.70	3.70
17	3.70	5.90	4.30	4.00	3.20	6.00	4.30	2.90	8.80	3.00	2.70	3.50
18	3.40	5.50	4.10	6.00	3.20	7.00	4.10	2.90	8.00	2.90	2.70	3.30
19	3.90	4.70	5.00	7.70	3.70	8.40	4.00	2.80	5.70	2.90	2.70	3.00
20	4.60	4.50	5.20	8.50	3.60	6.00	3.80	2.80	4.30	2.80	2.70	5.80
21	4.80	4.60	5.20	7.40	3.50	4.50	3.60	2.80	3.20	2.80	2.60	6.50
22	5.10	4.60	6.30	7.00	3.40	3.80	3.50	2.80	3.00	3.00	2.80	6.40
23	4.20	4.70	6.20	7.50	3.40	4.60	3.80	2.90	2.90	4.60	2.90	6.00
24	3.80	4.80	5.80	7.00	5.00	16.40	3.70	3.50	2.80	5.00	3.00	5.30
25	3.70	4.80	6.10	9.20	4.40	17.80	3.60	3.80	2.80	4.90	3.20	4.80
26	3.80	5.00	6.50	8.00	4.20	14.60	3.60	3.40	2.70	3.40	3.80	4.20
27	3.20	4.60	5.80	6.00	4.00	12.20	4.00	3.20	2.70	3.20	4.50	4.10
28	3.00	4.90	5.40	4.80	3.60	8.40	6.10	3.00	2.70	3.00	4.00	3.90
29	3.00	.....	5.30	4.50	3.50	5.60	6.70	2.90	2.60	2.90	5.00	3.60
30	2.90	.....	5.10	5.20	3.40	6.70	12.60	3.30	2.60	2.80	4.60	3.80
31	2.90	.....	4.50	.....	3.40	.....	9.20	3.90	.....	2.80	.....	7.20

Daily gage height, in feet, of Chattahoochee River, at West Point.—Cont'd.

Day.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1901												
1	7.80	4.70	4.70	7.80	4.00	6.70	3.90	3.60	5.80	3.40	2.60	2.50
2	7.20	4.60	4.60	6.70	4.00	6.00	4.50	3.00	5.60	6.30	2.60	2.40
3	7.00	4.60	4.40	6.20	4.00	7.10	5.00	2.90	4.60	5.10	2.60	2.90
4	6.10	12.60	4.20	10.30	4.00	6.90	4.90	2.80	3.90	4.40	2.50	3.20
5	5.30	13.80	4.00	8.60	4.00	5.80	4.20	2.90	3.80	3.60	2.90	3.10
6	4.70	10.20	3.90	6.40	3.90	8.50	3.70	3.00	3.80	3.30	2.80	3.10
7	4.00	6.40	3.70	6.20	3.90	6.40	3.50	4.80	3.60	3.10	2.70	3.00
8	3.90	6.30	3.50	6.00	3.90	5.90	3.30	6.40	3.50	3.00	2.60	3.00
9	3.90	7.00	3.50	5.10	3.90	4.70	3.20	6.00	3.40	2.90	2.60	2.90
10	3.80	6.50	3.40	4.60	3.80	4.20	3.10	4.00	3.30	2.90	2.60	3.50
11	5.00	6.20	4.10	4.00	3.80	4.00	3.00	3.90	3.10	2.90	2.60	3.30
12	13.30	6.00	4.20	3.80	3.80	3.80	3.00	5.30	3.10	2.90	2.50	3.20
13	15.40	5.40	4.50	5.20	3.80	4.00	3.00	4.20	4.70	3.00	2.50	3.00
14	14.70	4.80	4.00	10.40	3.70	4.90	2.90	4.00	4.00	3.10	2.50	3.20
15	12.40	4.50	3.90	8.50	3.90	4.70	2.80	3.80	3.90	3.30	2.50	6.40
16	6.10	4.40	3.70	6.90	3.80	7.90	3.40	6.80	3.40	3.50	2.50	7.10
17	5.00	4.30	3.70	6.00	3.80	7.00	6.60	10.40	5.00	3.20	2.50	7.60
18	6.00	4.20	3.60	5.20	4.00	7.40	3.40	7.60	10.40	3.20	2.40	6.30
19	5.30	4.20	3.40	6.40	4.20	6.20	3.10	10.10	12.70	3.20	2.50	4.40
20	4.80	4.00	3.40	7.60	4.50	4.50	6.40	7.80	7.80	3.10	3.00	3.60
21	4.60	3.90	3.60	7.00	8.40	4.20	4.20	6.50	4.80	3.00	3.40	3.30
22	4.40	3.90	3.80	6.20	15.70	4.00	3.90	8.20	4.10	2.80	3.50	3.20
23	4.30	3.80	4.00	5.50	17.20	3.90	3.70	14.10	3.80	2.80	3.10	3.20
24	4.20	3.80	4.30	5.00	12.80	3.80	3.20	17.10	3.00	2.80	2.90	3.10
25	4.10	4.60	4.00	4.80	10.50	3.70	3.00	13.60	3.40	2.80	2.80	3.90
26	4.00	4.20	3.90	4.60	8.20	3.70	2.90	8.20	3.40	2.70	2.70	4.60
27	3.90	4.00	9.60	4.40	5.50	4.70	2.80	7.10	3.30	2.70	2.60	5.40
28	4.00	3.90	12.10	4.20	5.10	4.20	2.80	6.00	3.30	2.70	2.60	6.80
29	4.90	.....	13.00	4.10	4.30	4.00	3.00	5.80	3.80	2.70	3.50	19.00
30	4.80	.....	5.90	4.10	5.60	3.80	4.10	5.30	3.50	2.70	2.50	25.00
31	4.70	.....	7.80	.....	7.00	.....	4.00	5.50	.....	2.70	.....	20.00
1902												
1	19.00	7.70	20.00	14.00	4.00	4.60	2.00	3.10	2.80	3.80	2.00	3.60
2	17.60	15.50	17.30	8.30	4.00	3.50	2.00	2.30	2.20	3.20	2.00	3.70
3	8.30	17.10	17.60	6.10	4.70	3.30	1.90	2.10	2.10	2.90	2.00	7.00
4	7.50	14.90	15.90	5.50	4.40	3.10	2.70	2.00	2.20	2.40	2.00	6.70
5	5.10	9.20	8.40	5.30	4.00	2.90	2.50	2.20	3.00	3.00	2.00	7.40
6	4.70	7.50	6.70	5.40	3.90	2.90	2.80	2.40	2.80	3.00	5.70	5.50
7	4.20	5.40	5.90	5.50	3.80	2.80	2.60	3.10	2.40	2.60	4.30	4.40
8	4.10	5.20	5.60	6.20	3.70	2.80	2.40	2.40	2.00	2.60	3.30	3.80
9	4.00	4.70	5.40	5.10	3.80	2.70	2.30	2.10	2.30	2.50	3.30	3.40
10	3.90	4.30	5.20	4.90	4.00	2.70	2.20	1.80	2.60	2.20	2.70	3.20
11	3.80	4.00	5.00	4.70	3.90	2.70	2.20	2.00	2.20	2.20	2.50	3.00
12	3.70	4.00	4.90	4.70	3.80	2.60	3.00	1.80	2.20	2.60	2.40	3.00
13	3.60	4.00	6.30	4.60	3.80	2.60	3.60	2.10	2.30	2.50	2.30	3.00
14	3.40	3.90	5.90	4.50	3.70	2.60	3.40	2.30	2.30	2.70	2.30	3.00
15	3.40	4.60	6.10	4.50	3.60	2.60	3.20	2.00	2.50	2.80	2.20	2.90
16	3.30	5.30	8.70	4.50	4.40	2.50	3.10	1.70	2.50	2.40	2.20	7.00
17	3.30	4.90	16.20	4.50	4.20	2.50	3.00	2.00	2.30	2.40	2.20	10.10
18	3.20	4.40	11.40	5.50	3.90	2.90	3.90	2.10	2.00	2.40	2.40	7.60
19	3.50	4.30	8.80	4.90	3.80	2.70	3.60	1.90	1.90	2.20	2.70	6.10
20	3.90	4.90	7.00	4.70	3.70	2.80	3.30	1.60	1.90	2.10	2.70	4.50
21	5.40	4.50	5.50	4.50	3.60	2.90	3.80	1.60	2.00	2.00	2.70	3.90
22	5.00	4.20	5.30	4.30	3.50	2.80	3.40	1.60	1.90	2.00	2.50	4.50
23	4.30	4.10	4.90	3.90	3.50	2.70	3.30	1.80	2.10	2.00	2.30	4.40
24	3.80	4.00	5.10	3.90	3.40	2.50	3.20	1.50	1.90	2.00	2.30	5.00
25	3.70	4.60	6.00	3.90	3.30	2.40	2.00	1.40	3.00	1.90	2.30	4.10
26	3.70	4.70	6.20	3.80	3.30	2.30	1.90	1.20	3.30	1.90	5.70	3.70
27	3.60	4.90	6.40	3.80	3.30	2.30	1.90	1.30	5.30	3.40	4.90	3.40
28	4.50	18.00	11.40	3.90	3.20	2.20	1.80	1.50	5.00	3.20	4.50	3.30
29	4.10	.....	14.90	3.90	3.10	2.20	2.00	3.00	4.50	2.70	3.50	3.20
30	4.40	.....	14.90	4.00	3.00	2.10	2.20	4.10	3.80	2.20	3.00	3.70
31	4.90	.....	14.60	.....	2.90	.....	2.40	3.00	.....	2.10	.....	4.10

Daily gage height, in feet, of Chattahoochee River at West Point, Ga. Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1903.												
1	4.1	3.7	11.6	12.2	4.4	5.7	4.0	3.8	2.2	2.1	2.0	2.2
2	.....	3.4	11.2	10.2	4.4	6.7	3.7	3.0	2.2	2.1	2.1	2.2
3	4.1	3.3	11.3	7.0	4.4	6.1	3.5	3.7	2.2	2.0	2.2	2.2
4	4.1	3.6	7.4	6.4	4.4	8.8	3.6	3.8	2.1	2.0	2.5	2.2
5	4.1	6.4	7.0	6.1	4.4	9.3	4.1	4.6	2.1	2.0	3.5	2.2
6	4.0	6.9	6.4	5.7	4.3	10.8	3.8	4.5	2.1	2.0	2.8	2.3
7	3.8	8.2	6.1	5.5	5.4	11.9	4.0	4.0	2.3	2.0	2.6	2.3
8	3.6	18.5	5.7	5.4	5.2	11.4	4.0	3.3	2.1	2.0	2.8	2.3
9	3.4	20.1	5.3	9.2	4.8	6.7	4.3	2.9	2.1	2.5	2.5	2.4
10	3.3	13.9	6.1	8.0	4.5	6.1	4.0	2.8	2.0	2.2	2.3	2.5
11	3.3	12.0	7.6	6.8	4.3	5.1	3.7	2.8	2.0	2.1	2.3	2.5
12	4.1	14.9	9.2	5.7	4.2	6.1	3.7	2.7	2.2	2.1	2.3	2.4
13	4.2	12.8	10.2	6.2	6.6	5.1	3.6	2.9	2.0	2.0	2.5	2.4
14	5.2	10.1	8.7	6.9	5.9	4.6	6.4	3.0	2.0	2.0	2.5	2.4
15	4.2	9.4	6.3	8.2	12.7	4.2	6.1	2.8	3.5	2.0	2.4	2.4
16	3.8	5.5	5.9	10.1	9.0	4.0	4.5	4.0	4.7	2.0	2.4	2.4
17	3.6	14.5	5.6	6.3	6.1	3.9	3.7	4.3	5.3	2.5	2.3	2.4
18	3.5	15.9	5.3	5.6	4.8	3.8	3.4	4.7	4.5	2.5	2.7	2.3
19	3.3	14.6	5.0	5.3	4.4	3.7	3.2	5.7	3.4	2.4	2.9	2.3
20	3.2	14.2	4.9	7.2	4.2	3.6	3.1	5.1	3.0	2.3	2.7	2.3
21	3.2	6.3	5.7	7.2	4.1	3.6	3.0	3.8	2.6	2.3	2.6	2.6
22	3.2	5.5	8.2	5.7	4.0	3.8	2.9	3.1	2.5	2.2	2.5	2.6
23	3.1	5.1	13.1	5.1	3.9	3.6	2.9	2.9	2.4	2.1	2.4	2.6
24	3.1	4.9	14.7	4.9	3.8	3.6	2.9	2.7	2.4	2.0	2.3	2.6
25	3.2	4.6	14.6	4.7	3.7	3.5	3.1	2.6	2.3	2.0	2.3	2.5
26	3.2	4.5	15.2	5.1	3.6	4.0	3.0	2.5	2.3	2.0	2.3	3.0
27	3.2	4.4	14.3	5.0	3.6	4.5	2.8	2.4	2.2	2.0	2.3	3.0
28	3.5	8.3	6.4	4.9	3.6	5.0	2.7	2.3	2.1	2.0	2.3	2.8
29	3.7	.....	7.0	4.6	3.6	5.2	2.7	2.3	2.1	2.0	2.2	2.7
30	3.5	.....	12.0	4.5	3.6	4.7	3.0	2.3	2.1	2.0	2.2	2.5
31	3.9	.....	13.5	.....	5.5	.....	4.0	2.3	.....	2.0	.....	2.4
1904.												
1	2.4	2.9	3.3	2.9	2.5	3.0	2.5	2.6	2.3	1.2	1.2	1.7
2	2.3	2.9	3.3	2.9	2.5	3.6	2.3	2.7	1.4	1.2	.9	1.8
3	2.4	2.9	3.7	2.9	2.4	2.7	2.1	2.5	2.0	1.2	1.1	1.9
4	2.4	2.8	3.5	2.8	2.4	2.4	2.1	3.3	1.9	1.2	1.5	2.0
5	2.4	2.8	3.3	2.7	2.4	2.2	1.7	2.5	1.8	1.1	1.7	2.0
6	2.3	2.8	3.1	2.7	2.4	2.1	1.9	3.1	2.5	1.1	1.6	2.6
7	2.3	3.1	4.7	2.8	2.4	1.5	1.6	5.3	2.4	1.2	1.6	3.0
8	2.4	4.8	6.0	3.2	2.4	1.4	1.8	11.4	2.2	1.2	1.5	3.2
9	2.4	5.0	6.0	3.6	2.4	2.0	2.4	12.6	2.1	1.1	1.6	3.1
10	2.7	4.4	5.4	3.5	3.1	2.3	2.1	12.4	1.9	1.1	1.5	2.5
11	3.0	5.4	4.2	3.5	3.4	2.1	1.8	9.6	1.7	1.1	1.5	2.2
12	2.8	5.1	3.7	3.4	3.1	2.0	1.6	6.2	1.6	1.1	1.5	2.1
13	2.7	4.1	3.6	3.1	2.6	1.8	1.6	4.8	1.6	1.2	1.6	1.9
14	2.7	3.7	3.6	2.9	2.4	1.6	1.8	4.2	1.6	1.1	1.7	2.0
15	2.7	3.4	4.0	2.8	2.3	1.6	1.9	5.0	1.5	1.0	1.8	1.8
16	2.6	3.3	4.2	2.7	2.3	1.6	1.4	4.0	1.5	1.0	1.7	1.8
17	3.5	3.2	3.7	2.7	2.3	1.6	1.4	3.9	1.4	1.0	1.6	1.8
18	3.6	3.0	3.4	2.7	2.3	1.5	1.7	3.4	1.4	1.1	1.6	1.8
19	3.3	3.1	3.2	2.7	2.2	1.5	1.4	3.0	1.4	1.0	1.6	1.8
20	3.1	3.7	3.1	2.7	2.1	1.5	2.0	2.9	1.3	1.1	1.6	1.8
21	2.8	4.0	3.0	2.7	2.0	1.5	1.7	2.3	1.3	1.2	1.6	1.7
22	3.3	5.4	3.0	2.7	2.0	1.4	2.0	2.4	1.4	.9	1.6	1.7
23	5.5	6.4	3.8	2.7	2.0	1.3	2.1	2.2	1.8	.9	1.8	1.7
24	5.1	6.1	3.3	2.6	1.9	1.7	2.3	2.2	1.9	.9	1.8	1.7
25	4.2	5.3	3.8	2.6	1.9	1.3	2.0	4.3	1.5	.9	1.8	1.9
26	3.8	4.3	3.8	2.6	1.9	1.4	1.9	5.1	1.4	.9	1.8	2.1
27	3.3	3.9	3.6	2.6	1.8	1.3	1.4	4.1	1.3	1.1	1.7	2.1
28	3.0	3.6	3.3	2.6	1.8	1.2	1.9	5.8	1.3	1.2	1.7	2.5
29	3.0	3.4	3.2	2.6	1.8	1.4	1.7	3.9	1.3	1.1	1.7	3.6
30	2.9	.....	3.1	2.6	1.8	2.0	2.1	3.0	1.3	1.0	1.6	3.7
31	2.9	.....	3.0	.....	2.7	.....	2.2	2.4	.....	1.1	.....	3.6

Daily gage height, in feet, of Chattahoochee River at West Point, Ga. Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1905												
1	2.9	2.6	3.6	2.7	3.3	2.8	2.8	2.2	1.9	1.9	1.88	2.15
2	2.6	2.5	3.5	2.7	2.5	2.5	4.4	2.0	1.8	3.6	1.85	1.98
3	2.3	2.4	3.4	2.7	2.7	2.4	7.8	1.8	2.2	2.7	1.85	10.6
4	2.3	2.4	3.3	2.5	3.0	2.3	4.9	2.0	2.5	2.1	1.85	13.6
5	2.3	2.7	3.2	2.8	2.9	2.3	3.2	1.9	2.9	1.8	1.9	10.2
6	2.2	3.0	3.2	2.9	2.9	2.1	2.9	1.6	2.2	1.7	1.85	6.2
7	2.6	3.2	3.1	2.9	3.1	2.1	3.9	1.5	2.0	1.6	1.76	4.2
8	2.3	4.0	3.1	2.9	2.9	2.1	4.9	1.5	1.8	1.7	1.95	5.3
9	2.6	3.5	3.1	2.9	4.3	2.1	7.8	2.6	1.7	1.5	1.88	9.8
10	3.0	3.3	3.6	3.3	4.0	2.0	4.8	2.7	1.7	1.8	2.0	8.8
11	2.7	7.3	3.3	3.2	3.9	1.9	4.2	3.0	1.6	2.35	2.8	8.9
12	3.4	7.0	3.1	3.2	3.3	1.7	5.8	4.1	1.6	2.7	3.0	6.4
13	12.6	9.2	3.6	3.1	3.0	1.6	8.7	5.2	1.8	2.35	2.5	4.6
14	10.6	8.9	3.6	2.9	2.7	1.6	8.2	5.5	1.7	2.9	2.1	4.0
15	10.2	8.5	3.3	2.8	2.5	1.9	5.4	4.6	1.7	2.5	2.1	3.9
16	5.5	6.1	3.2	3.0	2.4	2.2	3.9	6.2	1.6	2.1	2.1	3.9
17	4.0	4.8	3.1	3.0	2.8	2.5	3.7	4.7	1.5	2.0	2.0	3.8
18	3.6	4.3	3.1	2.5	3.0	2.2	3.2	4.4	1.6	1.8	2.0	3.7
19	3.4	3.9	3.0	2.6	3.7	2.9	2.8	3.5	1.5	1.8	2.0	3.5
20	3.3	3.8	3.0	2.6	3.0	2.4	2.5	2.8	1.6	1.9	2.05	5.4
21	3.2	4.5	3.5	2.6	2.9	2.4	2.7	2.6	1.4	1.7	1.98	9.4
22	3.1	6.9	3.6	2.7	2.8	2.3	2.0	2.2	1.3	1.7	2.0	8.7
23	3.0	9.3	3.3	2.8	2.9	2.5	2.5	2.8	1.3	1.65	1.95	7.1
24	2.7	6.0	3.4	2.8	4.1	2.5	2.3	3.4	1.3	1.72	1.95	6.0
25	2.7	4.9	3.1	2.4	4.0	2.6	2.3	4.0	1.5	1.85	1.95	4.9
26	2.6	4.4	3.0	2.6	5.0	2.9	2.7	3.7	1.4	2.8	1.98	4.4
27	2.3	4.0	3.0	2.6	4.1	2.2	2.5	3.0	1.3	2.7	2.0	4.0
28	2.3	3.8	2.8	2.0	3.5	2.2	2.0	2.6	1.3	2.25	2.1	3.8
29	2.4	.....	2.8	2.0	3.2	2.4	1.4	2.0	1.3	2.1	2.1	3.8
30	2.5	.....	2.8	2.6	3.1	3.1	2.6	2.1	1.5	2.0	2.1	3.6
31	2.5	.....	2.7	.....	2.9	.....	2.3	2.0	.....	1.98	.....	3.6
1906												
1	3.7	4.6	3.1	6.4	3.6	3.0	2.5	6.4	7.2	6.3	3.5	3.3
2	3.6	4.4	3.1	6.4	3.5	2.8	3.0	5.1	8.2	6.2	3.45	3.25
3	5.3	4.2	3.5	5.4	3.4	2.7	2.5	4.9	5.9	7.0	3.4	3.25
4	13.1	4.0	4.2	5.0	3.7	2.8	4.0	5.2	4.9	8.5	3.4	3.25
5	12.9	4.0	3.8	4.7	4.1	3.3	3.2	6.0	4.1	9.4	3.35	3.2
6	12.2	3.9	4.1	4.6	4.1	3.2	2.8	6.8	11.2	7.6	3.35	3.25
7	12.6	4.0	3.8	4.4	4.3	2.9	2.6	4.9	9.4	5.6	3.4	3.35
8	5.7	4.0	5.6	4.3	5.5	2.8	3.1	4.1	6.1	5.3	3.3	3.3
9	1.9	3.9	3.1	4.2	4.9	2.8	6.0	4.0	4.3	5.0	3.3	3.25
10	4.6	3.9	6.4	1.5	1.1	2.6	4.3	3.9	4.7	4.4	3.3	3.3
11	4.4	3.7	5.2	4.7	3.7	2.6	4.4	3.6	4.5	4.2	3.25	4.0
12	4.3	3.7	4.5	4.4	3.5	2.6	3.9	4.3	5.7	4.0	3.25	4.4
13	4.4	3.6	4.1	4.3	3.4	4.6	3.5	3.7	4.6	3.9	3.3	5.0
14	4.4	3.6	3.9	4.0	3.3	3.5	3.8	6.2	4.2	3.8	3.3	4.1
15	4.4	3.6	7.6	4.1	3.2	3.6	7.0	8.2	3.8	3.7	3.6	3.7
16	4.2	3.6	11.6	4.1	3.2	6.8	6.8	5.6	3.5	3.7	3.55	3.5
17	4.1	3.5	11.7	4.0	3.1	5.2	7.6	6.1	3.4	3.6	3.6	3.75
18	4.1	3.4	11.0	4.1	3.0	4.6	6.5	5.2	3.3	10.6	4.5	3.8
19	4.2	3.4	11.0	3.9	3.0	3.8	8.5	5.9	3.3	12.3	5.0	5.0
20	4.1	3.4	18.9	3.8	2.95	3.6	8.6	7.5	4.0	7.8	5.1	5.6
21	4.0	3.4	17.6	3.8	2.9	3.4	6.4	6.8	7.4	6.2	5.5	5.1
22	5.4	3.4	15.1	3.8	2.5	3.15	5.1	6.4	6.5	4.7	4.6	4.7
23	11.6	3.4	9.2	3.8	3.0	3.0	5.7	5.0	5.9	4.3	4.1	4.3
24	13.4	3.3	6.0	3.5	2.8	2.8	5.0	4.3	5.3	4.0	3.6	4.1
25	9.8	3.4	5.2	3.6	2.8	2.7	5.5	4.5	5.3	3.95	3.65	3.8
26	6.6	3.4	4.9	3.7	2.8	2.6	5.6	4.0	5.1	3.85	3.5	3.6
27	5.7	3.2	4.8	3.5	3.3	3.1	5.4	3.6	4.3	3.75	3.45	3.6
28	5.4	3.2	7.2	3.1	3.4	3.1	3.9	4.2	4.5	3.55	3.4	3.65
29	5.4	.....	7.6	3.5	3.9	3.0	4.0	4.0	4.5	3.55	3.35	4.0
30	5.3	.....	6.5	3.8	3.4	2.8	4.3	5.4	5.0	3.55	3.3	4.4
31	4.9	.....	6.6	.....	3.1	.....	5.0	6.0	.....	3.5	.....	7.0

Daily gage height, in feet, of Chattahoochee River at West Point, Ga. Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1907.												
1	9.1	6.1	8.2	3.5	4.4	3.65	3.0	2.5	1.7	3.1	1.9	4.2
2	9.1	8.4	10.9	3.5	4.0	3.65	3.2	2.9	1.7	2.9	1.85	3.7
3	8.1	6.2	12.5	3.5	3.85	4.2	3.5	2.55	1.8	2.55	2.1	3.3
4	5.5	6.5	10.0	3.5	4.0	4.2	3.35	2.5	1.7	2.2	2.2	3.2
5	4.9	12.0	7.2	3.4	4.1	3.6	3.2	2.3	2.6	2.1	2.2	3.1
6	4.5	10.8	5.5	4.0	3.95	3.35	2.8	2.1	3.0	2.1	2.4	2.95
7	4.4	7.2	4.9	3.7	5.0	3.2	3.4	2.3	2.65	2.15	2.15	2.9
8	4.2	5.6	4.6	4.2	4.8	3.1	3.0	2.3	2.25	2.25	2.05	2.9
9	4.1	4.9	4.4	4.0	5.1	2.95	2.6	2.3	2.3	2.8	2.0	3.2
10	4.0	4.6	4.2	3.6	4.8	3.0	2.45	2.25	2.8	2.4	2.35	4.8
11	3.95	4.3	4.2	3.4	4.5	2.8	2.35	2.0	3.2	2.2	3.2	5.1
12	3.9	4.2	4.1	3.3	4.3	3.0	2.4	2.5	3.2	2.1	3.05	5.2
13	3.8	4.0	4.0	3.3	3.9	2.8	2.3	2.7	2.65	2.0	3.3	5.0
14	3.8	3.9	4.0	3.3	3.8	3.3	3.9	2.45	2.4	1.9	2.85	6.0
15	3.7	3.8	4.5	3.3	7.3	3.5	5.2	2.3	2.1	1.85	2.6	6.0
16	3.6	3.75	4.6	3.25	7.6	3.1	3.1	3.2	2.0	1.8	2.4	5.3
17	3.55	3.7	4.1	5.8	5.6	3.1	2.85	3.9	2.0	1.7	2.25	4.8
18	3.55	3.65	3.95	5.8	4.7	2.8	2.6	3.35	1.8	1.8	2.4	4.2
19	3.5	3.6	3.8	5.2	4.1	2.8	2.7	2.9	1.7	1.8	2.8	4.0
20	3.65	3.65	3.8	4.8	3.7	2.8	2.7	2.5	1.7	1.75	3.0	3.7
21	3.75	3.65	3.7	4.1	3.5	2.9	2.9	2.35	1.75	1.8	4.2	3.55
22	3.65	3.6	3.7	5.3	3.4	2.75	2.8	2.7	2.0	1.8	6.1	3.55
23	3.6	3.55	3.6	8.3	3.35	2.7	2.45	2.5	3.7	1.8	7.6	8.9
24	3.45	3.5	3.55	8.0	3.3	2.7	2.3	2.4	3.5	1.8	8.4	10.0
25	3.4	3.95	3.55	7.1	3.35	2.65	2.0	2.55	4.0	1.8	7.8	7.6
26	3.55	4.2	3.5	5.4	3.5	2.7	2.3	2.7	4.3	1.8	7.8	5.6
27	3.55	5.8	3.45	4.7	4.0	2.7	2.65	2.4	2.8	1.7	5.0	4.6
28	3.45	7.0	3.4	4.8	4.0	3.45	2.95	2.1	2.5	1.8	4.0	4.2
29	3.4	.....	3.35	6.8	3.9	3.1	3.3	1.95	2.6	1.75	4.3	4.8
30	3.4	.....	3.35	5.5	3.5	3.1	3.3	1.8	2.8	1.8	4.4	5.8
31	3.9	.....	3.3	.....	3.5	.....	2.95	1.8	.....	1.8	.....	7.0
1908.												
1	8.6	11.8	4.6	4.8	5.2	3.6	2.6	2.45	2.3	1.7	3.3	2.4
2	9.2	11.6	4.4	4.0	5.0	3.55	2.5	2.35	2.35	1.75	2.9	2.9
3	5.4	8.0	4.4	4.2	4.8	3.6	2.5	2.2	2.2	1.7	2.8	3.0
4	4.7	6.2	4.6	4.2	4.5	3.7	2.6	2.2	2.1	1.7	4.2	2.6
5	5.6	5.0	4.4	4.1	4.5	4.2	2.7	2.3	2.15	1.7	4.3	2.6
6	5.8	5.0	4.3	4.2	5.0	4.3	4.4	2.3	5.0	1.7	3.8	2.7
7	6.5	4.8	4.2	4.3	6.0	3.65	4.8	2.6	5.6	1.7	3.25	3.25
8	6.3	4.5	4.1	4.3	6.6	3.4	4.4	3.2	4.8	1.7	2.9	3.85
9	5.5	4.3	4.1	4.3	6.4	3.3	3.75	3.2	3.35	2.05	2.8	7.5
10	4.8	5.4	4.0	4.1	5.1	3.25	4.1	3.25	2.8	3.0	2.5	7.4
11	4.6	7.6	3.9	4.0	4.6	3.85	4.3	3.2	2.5	3.2	2.45	4.4
12	5.6	9.0	3.95	4.0	4.4	3.4	3.7	2.7	2.3	3.75	2.35	3.7
13	7.3	9.2	4.0	3.7	4.2	3.2	3.25	2.35	2.2	3.45	2.3	3.3
14	7.9	7.6	4.0	3.3	4.0	3.35	2.95	2.1	2.15	3.3	2.3	3.3
15	5.8	11.6	4.0	3.9	4.0	3.6	3.0	2.1	2.05	1.95	2.45	3.2
16	5.0	12.6	3.95	6.2	3.85	4.1	2.8	2.0	2.0	1.9	2.5	3.3
17	4.5	11.4	3.85	6.4	3.95	3.75	2.6	2.1	2.0	2.05	2.45	3.2
18	4.2	9.9	3.85	6.2	4.7	3.3	2.5	2.3	1.95	1.95	2.65	2.9
19	4.2	7.0	3.75	5.6	5.2	3.3	2.4	2.6	1.95	2.0	2.55	2.8
20	4.0	6.6	3.7	5.4	4.6	3.1	2.8	3.0	1.9	1.95	2.6	2.75
21	3.95	6.0	3.6	5.4	4.5	3.05	3.0	3.7	1.95	1.9	2.5	2.7
22	3.9	5.6	4.6	4.2	4.2	3.0	2.5	3.5	2.1	1.85	2.1	9.2
23	3.85	5.2	7.0	5.6	3.9	3.2	2.4	3.05	2.05	1.9	2.15	11.4
24	3.75	5.0	11.1	5.0	3.8	3.8	2.7	4.5	2.0	1.9	2.3	8.8
25	3.75	4.8	12.3	10.9	3.8	3.75	2.65	8.4	1.95	1.9	2.3	6.7
26	3.7	5.2	11.8	15.9	4.2	3.2	2.2	8.8	1.9	2.4	2.35	5.9
27	3.8	5.4	9.2	14.6	4.7	3.0	2.9	6.6	1.85	2.7	2.2	4.1
28	3.7	5.0	6.1	12.1	4.2	2.9	2.45	4.0	1.8	2.5	2.25	3.85
29	3.65	4.9	5.6	7.4	3.95	2.8	2.45	3.1	1.9	2.8	2.15	3.5
30	3.75	.....	4.8	5.8	4.2	2.65	2.65	2.8	1.9	3.05	2.15	3.45
31	4.1	.....	4.8	.....	4.2	.....	2.65	2.5	.....	3.25	.....	3.55

Daily gage height, in feet, of Chattah
Continu

Day	Jan.	Feb.	Mar.	Apr.	May	Ju
1905						
1	2.9	2.6	3.6	2.7	3.3	
2	2.6	2.5	3.5	2.7	2.5	
3	2.3	2.4	3.4	2.7	2.7	
4	2.3	2.4	3.3	2.5	3.0	
5	2.3	2.7	3.2	2.8	2.9	
6	2.2	3.0	3.2	2.9	2.9	
7	2.6	3.2	3.1	2.9	3.1	
8	2.8	4.0	3.1	2.9	2.9	
9	2.6	8.5	3.1	2.9	4.3	
10	3.0	8.3	3.6	3.3	4.0	
11	2.7	7.3	3.3	3.2	3.9	
12	3.4	7.0	3.1	3.2	3.3	
13	12.6	9.2	3.6	3.1	3.0	
14	10.6	8.9	3.6	2.9	2.7	
15	10.2	8.5	3.3	2.8	2.5	
16	5.5	6.1	3.2	3.0	2.4	
17	4.0	4.8	3.1	3.0	2.8	
18	3.6	4.3	3.1	2.5	3.0	
19	3.4	3.9	3.0	2.6	3.7	
20	3.3	3.8	3.0	2.6	3.0	
21	3.2	4.5	3.5	2.6	2.9	
22	3.1	6.9	3.6	2.7	2.8	
23	3.0	9.3	3.3	2.8	2.9	
24	2.7	6.0	3.4	2.8	4.1	
25	2.7	4.9	3.1	2.4	4.0	
26	2.6	4.4	3.0	2.6	5.0	
27	2.3	4.0	3.0	2.6	4.1	
28	2.3	3.8	2.8	2.0	3.5	
29	2.4	.....	2.8	2.0	3.2	
30	2.5	.....	2.8	2.6	3.1	
31	2.5	.....	2.7	.....	2.9	
1906						
1	3.7	4.6	3.1	6.4	3.6	
2	3.6	4.4	3.1	6.4	3.5	
3	5.3	4.2	3.5	5.4	3.4	
4	13.1	4.0	4.2	5.0	3.7	
5	12.9	4.0	3.8	4.7	4.1	
6	12.2	3.9	4.1	4.6	4.1	
7	12.6	4.0	3.8	4.4	4.3	
8	5.7	4.0	5.6	4.3	5.5	
9	1.9	3.9	8.1	4.2	4.9	
10	4.6	3.9	6.4	1.5	1.1	
11	4.4	3.7	5.2	4.7	3.7	
12	4.3	3.7	4.5	4.4	3.5	
13	4.4	3.6	4.1	4.3	3.4	
14	4.4	3.6	3.9	4.0	3.3	
15	4.4	3.6	7.6	4.1	3.2	
16	4.2	3.6	11.6	4.1	3.2	
17	4.1	3.5	11.7	4.0	3.1	
18	4.1	3.4	11.0	4.1	3.0	
19	4.2	3.4	11.0	3.9	3.0	
20	4.1	3.4	18.9	3.8	2.9	
21	4.0	3.4	17.6	3.8	2.9	
22	5.4	3.4	15.1	3.8	2.8	
23	11.6	3.4	9.2	3.8	3.0	
24	13.4	3.3	6.0	3.5	2.8	
25	9.8	3.4	5.2	3.6	2.9	
26	6.6	3.4	4.9	3.7	2.8	
27	5.7	3.2	4.8	3.5	3.2	
28	5.4	3.2	7.2	3.1	3.4	
29	5.4	.....	7.6	3.5	3.9	
30	5.3	.....	6.5	3.8	3.8	
31	4.9	.....	6.6	.....	3.1	

...e height, in feet, of Chattahoochee River at West Point, Ga. Continued.

Day.	...an.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1907.												
1	3.15	2.6	2.95	3.45	3.55	2.6	1.92	2.2	1.6	2.6	3.1	3.1
2	3.2	2.5	2.85	3.4	3.85	2.4	2.2	6.4	1.8	1.85	2.8	3.4
3	8.1	2.7	3.05	3.1	3.55	2.45	2.1	4.8	2.6	1.65	2.7	3.3
4	10.0	2.9	3.1	3.0	3.45	2.45	2.7	4.2	2.6	1.6	2.9	2.8
5	9.4	3.1	3.2	5.6	3.4	2.25	2.12	4.4	2.9	1.4	3.0	2.9
6	8.0	2.85	2.9	8.0	3.35	2.2	2.2	5.0	2.6	1.35	2.5	2.6
7	5.3	3.2	2.9	8.9	3.3	2.25	2.6	4.2	2.3	1.55	3.4	2.7
8	4.4	3.1	2.8	9.3	3.1	2.2	2.6	3.6	2.2	2.4	4.0	2.7
9	3.95	3.45	2.85	9.0	3.0	2.2	2.6	3.2	3.4	2.1	7.7	3.0
10	3.75	4.5	2.8	10.4	3.1	2.35	2.5	2.6	3.2	2.0	7.8	3.2
11	3.5	4.3	3.0	8.4	3.0	2.3	2.3	2.5	2.1	2.1	7.2	3.1
12	3.4	5.6	2.9	6.6	2.75	2.05	2.6	2.9	1.6	3.4	5.4	2.6
13	3.35	5.8	2.8	5.9	2.9	1.9	3.4	3.0	1.5	4.5	4.2	2.5
14	3.25	4.8	2.7	5.8	2.9	1.95	4.0	2.4	1.45	3.4	3.5	2.4
15	3.25	4.2	2.6	5.9	2.7	1.95	5.5	2.5	1.5	3.2	3.8	2.8
16	3.05	4.0	2.55	5.4	2.65	1.85	5.1	2.4	2.2	2.6	3.6	3.1
17	2.85	3.7	2.6	5.0	2.6	1.72	5.2	3.0	2.7	2.4	3.0	3.4
18	2.9	3.6	2.7	4.6	2.55	2.05	6.3	3.0	2.3	3.7	3.1	3.2
19	2.95	3.45	2.8	4.6	2.7	1.9	5.4	2.8	2.3	4.5	3.5	3.0
20	3.0	3.75	2.95	4.7	2.6	2.6	4.2	3.0	2.4	5.3	3.4	3.8
21	2.95	3.7	2.95	4.3	3.2	3.6	3.5	2.1	2.2	4.0	3.1	4.7
22	3.0	3.7	3.15	4.3	3.25	3.3	3.2	1.75	1.7	3.4	3.3	6.8
23	2.9	3.7	3.20	4.1	3.8	2.8	3.2	1.75	2.1	2.6	3.1	8.6
24	2.8	3.5	2.85	3.8	4.3	2.6	2.7	1.75	2.7	2.8	2.9	9.5
25	2.7	3.4	2.9	3.6	3.7	2.6	2.6	1.75	2.1	2.6	3.2	9.0
26	2.7	3.3	3.75	3.6	3.4	2.15	2.9	1.75	2.1	2.6	3.1	6.4
27	2.75	3.2	5.0	3.45	3.2	2.6	2.8	3.3	2.0	3.0	2.8	6.2
28	2.9	2.95	4.6	3.4	3.0	2.6	2.6	2.2	1.9	3.9	2.9	5.9
29	2.9	.....	4.8	3.7	2.5	2.3	2.5	1.8	1.55	3.8	3.2	5.5
30	2.8	.....	4.2	3.6	2.4	2.05	2.4	1.5	1.55	2.8	3.2	5.3
31	2.75	.....	3.6	.....	2.5	.....	2.0	1.42	.....	2.6	.....	5.2
1908.												
1	5.8	11.4	6.5	11.9	6.4	5.5	4.9	3.3	2.7	3.6	3.2	3.2
2	5.9	7.5	5.7	7.5	6.4	4.3	4.8	3.1	2.6	3.6	3.1	3.1
3	6.7	5.6	5.4	6.5	5.8	3.9	5.4	3.4	2.6	3.2	3.1	2.9
4	5.8	5.0	5.6	6.0	6.2	4.6	5.6	4.2	2.5	4.6	3.2	3.2
5	5.4	4.4	6.0	5.7	7.2	4.7	5.6	3.7	2.6	6.4	2.9	4.2
6	5.0	4.2	8.6	5.4	6.2	5.0	6.5	3.4	2.6	6.0	3.3	4.0
7	4.7	4.0	8.6	5.4	6.3	5.4	7.0	3.5	3.0	4.9	3.5	3.9
8	5.0	4.0	7.7	5.2	7.2	6.3	5.4	6.0	3.2	4.0	3.7	3.9
9	7.8	3.9	6.8	5.2	6.6	5.1	5.3	5.1	2.8	3.7	3.5	3.9
10	7.1	4.0	6.2	5.1	5.4	4.2	6.2	5.6	2.7	3.2	3.5	3.6
11	5.8	4.4	5.6	5.0	4.9	4.0	6.4	7.5	2.8	3.3	3.4	3.6
12	5.2	4.2	6.1	4.9	5.1	3.7	6.8	5.9	3.0	3.4	3.2	3.5
13	4.8	3.9	6.0	5.1	5.1	3.6	7.8	4.4	3.0	3.4	3.4	3.4
14	4.6	4.4	5.5	5.0	4.9	15.2	7.0	3.8	3.1	3.5	3.2	3.2
15	4.3	7.2	20.0	4.7	4.5	17.7	6.0	3.6	3.2	3.2	3.2	3.3
16	4.2	9.4	22.7	5.3	4.4	14.8	5.0	3.5	3.4	3.4	3.3	3.3
17	4.0	8.8	19.4	11.6	4.4	12.4	5.8	3.4	3.6	3.1	3.4	3.0
18	4.0	8.1	17.6	12.6	4.3	7.4	5.8	3.8	3.7	3.3	3.3	3.4
19	4.2	6.0	15.4	9.7	4.4	5.4	5.6	4.5	3.7	3.8	2.8	3.3
20	4.6	5.4	7.1	8.2	4.0	4.6	5.2	3.9	3.0	5.3	3.3	3.3
21	4.4	6.4	6.4	10.6	4.0	4.2	4.8	3.5	3.0	5.3	3.1	3.3
22	4.2	9.9	6.0	10.8	3.9	4.0	4.6	3.4	3.2	5.6	3.0	3.3
23	3.9	9.4	5.7	14.0	3.8	3.9	4.3	3.6	5.2	4.1	3.1	3.7
24	3.9	9.0	7.6	12.0	3.8	3.8	4.1	3.2	4.8	3.8	3.0	5.2
25	4.0	10.0	9.6	10.2	3.8	7.2	3.8	3.1	5.6	3.5	3.1	5.2
26	3.6	8.8	8.6	6.7	3.8	12.0	3.8	4.2	5.0	3.4	2.7	4.4
27	3.8	9.4	7.2	5.9	3.7	10.8	3.9	3.5	3.8	3.3	3.1	4.1
28	3.8	9.6	6.2	6.5	3.5	7.6	3.6	3.3	3.8	3.3	3.0	4.1
29	10.5	8.3	11.8	6.6	4.1	5.6	3.4	3.2	3.8	3.1	3.1	4.5
30	14.4	.....	13.5	7.4	5.6	4.9	3.8	2.8	4.0	3.2	3.0	3.7
31	13.0	.....	12.3	.....	6.4	.....	3.2	2.8	.....	3.1	.....	3.7

...age heights Jan. 1 to Oct. 20, 1912, taken at the old gage at Montgomery ...ge. Oct. 21 to Dec. 31, 1912, the gage heights taken at the new gage one-half ...r upstream.

Daily gage height, in feet, of Chattahoochee River at West Point, Ga. Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1915									
1	6.0	6.5	5.2	4.2	3.4	7.6	4.0	2.3	2.6
2	4.9	9.6	4.9	4.0	3.3	10.3	3.3	2.3	2.6
3	4.4	8.3	4.7	4.0	3.3	6.3	6.9	2.4	2.4
4	4.1	8.3	4.6	4.0	3.0	4.7	4.6	2.4	2.4
5	3.9	6.5	6.8	3.9	3.3	4.1	6.3	2.4	5.4
6	4.3	6.6	7.9	3.8	3.1	3.7	10.1	2.5	4.7
7	7.1	6.3	6.9	3.8	3.8	4.0	7.4	2.5	3.4
8	7.3	5.7	6.2	3.7	3.3	3.5	4.6	2.5	3.0
9	7.4	5.2	5.5	3.7	9.7	3.5	5.1	2.2	2.9
10	5.4	4.8	5.0	3.7	3.0	3.4	3.3	2.3	2.5
11	4.8	4.6	4.8	3.7	5.3	3.4	3.3	3.3	2.4
12	7.0	4.5	4.6	3.8	5.1	3.4	5.9	3.2	2.3
13	6.4	4.5	4.5	3.6	4.8	3.8	3.7	3.1	2.2
14	5.9	4.4	4.4	3.7	6.1	3.7	3.4	2.8	2.4
15	5.3	4.9	4.3	3.7	6.5	3.3	3.8	2.6	3.1
16	4.6	5.8	4.3	3.7	4.6	3.3	3.8	3.9	3.2
17	5.9	5.6	4.3	3.6	4.0	3.2	3.5	3.4	3.2
18	8.2	5.7	4.2	3.6	3.7	3.7	3.2	3.0	2.8
19	8.6	4.9	4.2	3.6	3.7	3.2	3.2	3.6	2.4
20	8.3	4.6	4.2	3.3	3.5	3.0	3.1	3.5	2.2
21	7.7	4.5	4.1	3.6	3.5	3.0	3.0	4.0	2.2
22	5.8	4.3	4.1	3.4	3.4	2.9	3.1	3.8	2.2
23	5.2	4.4	4.1	3.4	3.2	2.8	2.8	3.3	2.1
24	8.8	6.5	4.0	3.5	3.3	2.8	2.8	2.9	2.3
25	10.4	8.5	3.9	3.5	3.1	2.7	2.8	3.3	2.3
26	9.5	8.9	4.0	3.3	3.3	2.7	2.7	2.7	2.2
27	8.4	7.3	4.0	3.1	3.8	2.9	2.6	2.6	2.0
28	6.5	5.6	3.9	3.6	5.8	2.8	2.5	2.4	2.0
29	5.5	.....	3.9	3.5	5.0	3.0	2.3	2.4	2.0
30	5.1	.....	3.9	3.7	3.8	2.9	2.3	2.8	2.2
31	4.9	.....	4.2	.....	3.9	.....	2.3	2.7	.....

Note.—At present all stream flow computations by the United States Geological Survey are prepared for the climatic year ending September 30. The year 1916 will begin with October 1, 1915, thus including three months of 1915.

Rating tables for Chattahoochee River at West Point, Ga., for 1896 to 1903, inclusive.

Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge
Feet	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Feet*	*Sec.-ft.*
0.80	780	2.90	3,170	5.00	8,040	9.50	20,750
.90	820	3.00	3,340	5.20	8,592	10.00	22,200
1.00	870	3.10	3,520	5.40	9,144	10.50	23,650
1.10	930	3.20	3,700	5.60	9,696	11.00	25,100
1.20	1,000	3.30	3,890	5.80	10,248	11.50	26,590
1.30	1,090	3.40	4,080	6.00	10,800	12.00	28,900
1.40	1,180	3.50	4,280	6.20	11,352	12.50	31,110
1.50	1,280	3.60	4,480	6.40	11,904	13.00	33,410
1.60	1,380	3.70	4,700	6.60	12,456	13.50	35,710
1.70	1,490	3.80	4,920	6.80	13,008	14.00	38,030
1.80	1,600	3.90	5,140	7.00	13,560	15.00	42,630
1.90	1,720	4.00	5,370	7.20	14,112	16.00	47,230
2.00	1,840	4.10	5,620	7.40	14,664	17.00	51,830
2.10	1,970	4.20	5,890	7.60	15,240	18.00	56,430
2.20	2,100	4.30	6,140	7.80	15,820	19.00	61,030
2.30	2,240	4.40	6,400	8.00	16,400	20.00	65,630
2.40	2,380	4.50	6,670	8.20	16,980	21.00	70,230
2.50	2,530	4.60	6,940	8.40	17,560	22.00	74,830
2.60	2,690	4.70	7,215	8.60	18,140	23.00	79,430
2.70	2,840	4.80	7,490	8.80	18,720	24.00	84,030
2.80	3,000	4.90	7,765	9.00	19,300	25.00	88,630

Rating table for Chattahoochee River at West Point, Ga., for 1904 and 1905.

Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.
Feet.	*Sec.-ft.*	*Feet.*	*Sec.-ft.*	*Feet.*	*Sec.-ft.*	*Feet.*	*Sec.-ft.*
0.90	800	2.30	2,240	3.70	4,720	6.20	10,840
1.00	850	2.40	2,380	3.80	4,940	6.40	11,380
1.10	920	2.50	2,530	3.90	5,160	6.60	11,940
1.20	1,000	2.60	2,680	4.00	5,380	6.80	12,520
1.30	1,090	2.70	2,840	4.20	5,830	7.00	13,100
1.40	1,180	2.80	3,000	4.40	6,290	8.00	16,000
1.50	1,280	2.90	3,170	4.60	6,760	9.00	18,900
1.60	1,380	3.00	3,340	4.80	7,240	10.00	21,800
1.70	1,490	3.10	3,520	5.00	7,740	11.00	24,700
1.80	1,600	3.20	3,700	5.20	8,240	12.00	27,600
1.90	1,720	3.30	3,890	5.40	8,740	13.00	30,500
2.00	1,840	3.40	4,080	5.60	9,260	14.00	33,400
2.10	1,970	3.50	4,280	5.80	9,780		
2.20	2,100	3.60	4,500	6.00	10,300		

Rating table for Chattahoochee River at West Point, Ga., for 1906, 1907 and 1908.

Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.
Feet.	*Sec.-ft.*	*Feet.*	*Sec.-ft.*	*Feet.*	*Sec.-ft.*	*Feet.*	*Sec.-ft.*
1.70	1,490	3.20	3,700	4.70	6,830	7.40	13,340
1.80	1,600	3.30	3,890	4.80	7,060	7.60	13,860
1.90	1,720	3.40	4,080	4.90	7,290	7.80	14,380
2.00	1,840	3.50	4,280	5.00	7,520	8.00	14,900
2.10	1,970	3.60	4,480	5.20	7,980	9.00	17,740
2.20	2,100	3.70	4,680	5.40	8,440	10.00	20,700
2.30	2,240	3.80	4,880	5.60	8,920	11.00	23,860
2.40	2,380	3.90	5,090	5.80	9,400	12.00	27,100
2.50	2,530	4.00	5,300	6.00	9,880	13.00	30,500
2.60	2,680	4.10	5,510	6.20	10,360	14.00	33,900
2.70	2,840	4.20	5,730	6.40	10,840	15.00	37,350
2.80	3,000	4.30	5,950	6.60	11,320	16.00	40,800
2.90	3,170	4.40	6,170	6.80	11,820		
3.00	3,340	4.50	6,390	7.00	12,320		
3.10	3,520	4.60	6,610	7.20	12,820		

Note.—The above table is not applicable for obstructed-channel conditions. It is based on 28 discharge measurements made during 1904 to 1908 and is well defined.

Daily discharge, in second-feet, of Chattahoochee River at West Point, Ga.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1909												
1	4,280	3,170	7,060	7,520	13,900	7,060	6,170	5,510	7,290	2,100	2,380	2,530
2	4,080	3,170	6,610	7,060	23,900	5,950	5,090	4,280	3,430	2,100	2,600	2,530
3	3,700	3,260	6,830	6,610	26,100	8,440	4,880	16,900	3,080	2,380	3,000	2,530
4	3,610	3,170	7,060	6,390	20,100	16,900	5,300	39,100	2,760	2,240	2,600	2,760
5	3,520	3,170	6,170	6,170	9,400	15,200	4,080	27,100	2,600	2,170	2,530	2,920
6	9,400	6,170	6,170	5,950	7,750	17,400	4,080	17,200	2,460	2,240	2,600	2,600
7	14,100	6,610	8,680	6,170	7,060	13,600	4,680	14,400	2,310	2,240	2,600	3,170
8	8,920	5,090	11,300	7,060	6,170	8,210	5,300	8,440	2,240	2,240	2,680	5,730
9	5,950	4,880	9,880	7,290	5,950	6,830	10,800	7,060	2,600	2,380	2,460	8,440
10	4,780	24,200	40,800	7,060	11,600	5,950	12,800	6,390	2,680	2,310	2,170	7,980
11	4,280	27,800	39,400	6,170	8,680	5,730	8,680	5,300	2,680	2,100	2,310	5,300
12	4,080	18,900	37,400	5,950	6,830	5,510	6,390	4,480	3,170	2,240	2,380	4,680
13	3,980	13,600	51,200	6,390	6,170	5,300	5,300	5,510	3,000	2,240	2,460	9,880
14	4,180	19,200	44,900	7,520	5,510	5,090	6,390	7,520	2,240	2,600	2,530	9,400
15	4,280	23,200	37,000	7,060	5,090	6,170	5,300	8,440	2,240	3,520	2,380	7,980
16	4,580	35,300	32,500	6,610	5,510	6,610	6,830	6,170	3,170	9,640	2,240	7,980
17	6,610	31,900	27,800	5,950	5,950	7,060	5,950	5,730	2,920	8,440	2,840	5,730
18	9,640	15,400	12,300	5,510	5,510	6,170	5,090	4,680	3,610	5,090	3,170	4,880
19	9,400	12,300	10,800	5,300	5,090	5,950	4,380	3,890	4,080	3,610	2,840	4,680
20	6,610	12,800	15,400	5,090	5,730	5,950	4,080	3,610	3,430	3,340	2,840	4,780
21	5,300	11,100	30,500	4,980	6,610	7,520	3,610	3,170	2,840	3,170	3,080	4,380
22	4,680	17,200	21,900	4,880	10,400	8,920	5,090	3,000	2,840	4,480	2,840	4,280
23	4,380	17,700	13,600	8,440	13,300	7,290	3,890	2,920	2,840	5,730	3,800	3,980
24	4,280	22,900	9,880	18,300	12,300	7,060	4,780	2,760	5,090	4,280	5,510	4,080
25	3,890	20,700	9,640	11,300	9,400	7,290	4,380	2,840	11,300	3,520	4,480	4,980
26	3,890	13,300	10,400	13,900	7,520	6,170	4,080	2,460	7,520	2,920	3,520	6,390
27	3,700	9,880	11,800	10,800	8,440	6,170	3,610	2,680	4,280	2,920	3,260	5,300
28	3,520	7,980	9,880	11,800	7,980	5,510	3,520	2,530	3,340	2,680	2,920	5,200
29	3,430	.....	9,400	10,800	7,520	8,920	3,520	2,530	3,170	2,530	2,530	4,480
30	3,430	.....	9,640	8,680	6,610	7,290	4,780	2,380	3,000	2,530	2,530	4,080
31	3,260	.....	8,920	.....	5,950	.....	5,510	10,600	.....	2,530	.....	3,800
1910												
1	3,360	5,250	10,400	3,200	3,440	3,610	22,500	2,960	2,660	2,880	1,980	1,860
2	3,440	4,490	13,900	3,280	3,120	3,280	14,900	3,120	5,250	3,200	1,860	2,310
3	3,440	4,680	12,100	3,360	2,810	3,280	15,400	3,440	9,950	2,520	1,740	2,040
4	3,360	5,250	9,720	3,200	2,810	3,440	13,100	2,520	6,450	2,520	1,740	2,240
5	3,280	4,870	7,290	3,280	2,590	3,780	10,400	6,660	4,400	1,980	1,860	4,580
6	3,360	4,220	6,050	3,440	2,810	4,310	7,930	8,370	3,440	1,920	2,380	6,250
7	5,060	3,860	5,450	3,280	2,960	4,490	7,080	12,800	2,960	2,590	2,240	6,870
8	6,870	3,780	5,060	3,280	3,280	7,080	8,370	12,400	2,660	3,120	2,040	7,710
9	6,050	3,860	4,780	3,280	3,950	5,250	8,150	8,590	2,880	4,490	1,920	5,250
10	5,650	3,780	4,580	3,040	7,710	5,060	7,290	5,650	3,120	4,220	1,860	3,950
11	4,490	4,220	5,250	3,040	12,600	5,450	6,870	4,130	3,200	4,310	1,860	3,610
12	3,950	5,450	5,450	2,960	6,450	5,250	6,050	4,130	3,120	3,520	2,110	3,120
13	3,610	5,250	5,650	3,120	4,680	5,850	4,870	4,400	3,120	3,120	1,980	2,660
14	3,610	4,580	5,060	3,120	4,490	8,150	4,220	3,120	2,590	2,520	1,860	2,240
15	3,700	4,130	4,490	3,040	3,950	8,150	4,040	2,810	2,110	2,520	1,860	2,380
16	3,440	4,130	4,310	4,130	3,610	6,450	3,950	2,810	2,110	2,520	1,980	2,590
17	3,440	4,870	4,130	11,800	3,280	5,650	4,580	3,040	2,240	2,040	1,680	2,660
18	3,280	10,600	4,040	13,600	4,040	5,250	6,050	3,120	2,380	2,040	1,800	2,520
19	3,440	15,400	4,040	11,400	3,440	4,040	4,680	2,880	2,110	1,980	2,180	2,660
20	3,860	12,800	4,220	7,290	3,700	3,610	3,860	3,280	1,860	1,860	2,380	2,520
21	4,870	9,030	4,040	5,250	7,500	3,780	3,440	2,960	1,740	1,860	1,980	2,110
22	5,850	9,490	3,780	4,130	10,400	5,450	3,280	2,590	2,180	1,980	1,860	1,980
23	5,250	8,590	3,780	4,040	11,800	4,870	3,280	2,310	2,040	2,040	1,860	2,180
24	5,650	8,150	3,700	4,040	12,800	4,310	4,400	2,310	2,110	1,860	1,980	2,960
25	5,650	9,030	3,610	3,780	22,800	4,130	4,130	2,240	2,110	1,860	1,860	3,610
26	5,060	7,710	3,610	3,860	17,000	3,860	3,610	2,240	1,860	1,860	2,110	3,610
27	4,780	6,050	3,610	3,860	10,900	3,610	3,280	2,520	2,240	1,680	2,110	2,810
28	5,450	6,660	3,610	3,610	7,290	3,360	2,960	2,520	1,980	1,860	2,380	2,880
29	7,500	.....	3,520	3,610	5,450	3,950	2,810	2,450	2,660	2,110	2,520	2,810
30	7,080	.....	3,520	3,610	4,310	12,100	3,610	2,240	3,780	2,110	1,860	3,610
31	5,650	.....	3,440	.....	3,950	.....	3,200	2,380	.....	1,860	.....	3,780

Note.—These discharges were obtained from a rating curve which is fairly well defined below 22,200 second-feet.

Note.—On account of addition to the dam at Langdale, Ala., 5 miles below, the back water effect was so great as to change the rating, and also to make variable relation between gage height and discharge at low stage. As the former rating could not be used, no daily discharge table was prepared for 1911.

Daily discharge, in second-feet, of Chattahoochee River at West Point, Ga Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1912												
1	8,250	23,400	9,980	24,900	9,720	7,530	6,160	3,000	1,990	3,560	2,990	2,990
2	8,490	12,600	8,010	12,600	9,730	4,900	5,940	2,640	1,840	3,560	2,830	2,830
3	10,500	7,770	7,300	9,980	8,250	4,130	7,300	3,180	1,840	2,820	2,830	2,540
4	8,250	6,380	7,770	8,730	9,320	5,510	7,770	4,700	1,700	5,510	2,990	2,990
5	7,300	5,100	8,730	8,010	11,800	5,720	7,770	3,750	1,840	9,730	2,540	5,080
6	6,380	4,700	15,400	7,300	9,320	6,380	9,980	3,180	1,840	8,730	3,160	4,600
7	5,720	4,320	15,400	7,300	9,480	7,300	11,300	3,370	2,470	6,160	3,530	4,370
8	6,380	4,320	13,100	6,840	11,800	9,480	7,300	8,730	2,820	4,320	3,940	4,370
9	13,300	4,130	10,700	6,840	10,200	6,610	7,070	6,610	2,140	3,750	3,530	4,370
10	11,500	4,320	9,320	6,610	7,300	4,700	9,320	7,770	1,990	2,820	3,530	3,730
11	8,250	5,100	7,770	6,380	6,160	4,320	9,730	12,600	2,140	3,000	3,340	3,730
12	6,840	4,700	8,980	6,160	6,610	3,750	10,700	8,490	2,470	3,180	2,990	3,530
13	5,940	4,130	8,730	6,610	6,610	3,560	13,300	5,100	2,470	3,180	3,340	3,340
14	5,510	5,100	7,530	6,380	6,160	35,500	11,300	3,940	2,640	3,370	2,990	2,990
15	4,900	11,800	52,200	5,720	5,300	44,200	8,730	3,560	2,820	2,820	2,990	3,160
16	4,700	17,600	61,600	7,070	5,100	34,100	6,380	3,370	3,180	3,180	3,160	3,160
17	4,320	16,000	50,100	24,000	5,100	26,400	8,250	3,180	3,560	2,640	3,340	2,680
18	4,320	14,100	43,800	27,100	4,900	12,300	8,250	3,940	3,750	3,000	3,160	3,340
19	4,700	8,730	36,200	18,400	5,100	7,300	7,770	5,300	3,750	2,940	2,400	3,160
20	5,510	7,300	11,500	14,400	4,320	5,510	6,840	4,130	2,470	7,070	3,160	3,160
21	5,100	9,730	9,730	21,000	4,320	4,700	5,940	3,370	2,470	7,720	2,830	3,160
22	4,700	19,000	8,730	21,600	4,130	4,320	5,510	3,180	2,820	8,440	2,680	3,160
23	4,130	17,600	8,010	31,500	3,940	4,130	4,900	3,560	6,840	4,840	2,830	3,940
24	4,130	16,500	12,800	25,200	3,940	3,940	4,510	2,820	5,940	4,150	2,680	7,480
25	4,320	19,300	18,200	19,800	3,940	11,800	3,940	2,640	7,770	3,530	2,830	7,480
26	3,560	16,000	15,400	10,500	3,940	25,200	3,940	4,700	6,380	3,340	2,260	5,560
27	3,940	17,600	11,800	8,490	3,750	21,600	4,130	3,370	3,940	3,160	2,830	4,840
28	3,940	18,200	9,320	9,980	3,370	12,800	3,560	3,000	3,940	3,160	2,680	4,840
29	20,700	14,600	24,600	10,200	4,510	7,770	3,180	2,820	3,940	2,830	2,830	5,800
30	32,800	.....	29,900	12,300	7,770	6,160	3,940	2,140	4,320	2,990	2,680	3,940
31	28,300	.....	26,100	.....	9,730	.....	2,820	2,140	.....	2,830	.....	3,940
1913												
1	4,150	9,750	13,500	9,700	4,150	3,100	5,080	3,730	2,130	4,370	2,130	2,130
2	4,150	8,000	15,500	8,750	4,150	3,730	3,730	8,000	2,000	5,800	2,130	2,990
3	3,940	11,500	9,250	7,750	3,940	6,280	2,990	6,760	2,830	3,730	2,260	3,340
4	4,370	17,500	7,250	7,250	3,730	4,600	2,680	4,150	1,880	2,540	1,880	2,990
5	3,730	14,200	6,280	7,000	3,940	4,150	2,990	3,340	1,770	2,260	1,880	3,160
6	3,940	10,000	5,800	6,520	3,730	5,080	2,540	2,400	1,660	1,880	1,880	4,150
7	3,340	7,500	5,320	6,040	3,730	6,520	2,260	2,400	1,660	1,880	1,880	2,990
8	3,530	6,280	4,840	6,040	3,940	7,000	2,680	5,560	1,660	1,880	2,000	3,530
9	3,730	5,320	4,600	5,800	3,730	7,000	2,260	4,150	1,660	1,660	2,000	2,680
10	3,730	4,840	8,750	5,560	3,940	5,800	2,260	3,340	2,130	1,880	1,880	2,540
11	3,530	4,840	15,000	7,500	3,940	5,320	2,540	2,990	1,770	1,660	1,880	2,680
12	4,370	5,320	13,000	6,760	3,730	4,150	3,160	2,830	2,400	1,560	2,130	2,400
13	5,560	11,200	23,000	6,520	3,340	3,730	4,370	2,830	1,770	1,460	2,000	2,400
14	4,840	10,000	35,000	6,280	3,530	3,340	6,040	2,990	1,660	1,460	2,000	2,260
15	4,150	7,000	45,000	6,040	3,730	3,160	5,080	3,160	1,560	1,560	1,880	2,130
16	3,940	5,560	40,000	5,560	3,340	2,990	3,340	3,340	1,880	1,560	2,000	2,540
17	3,940	4,840	33,000	5,560	3,940	2,680	3,340	2,990	1,770	1,420	1,880	2,130
18	3,730	4,840	23,000	5,320	4,600	2,680	2,830	2,990	1,660	1,560	2,000	2,130
19	3,940	4,370	12,500	5,080	4,150	2,680	2,400	4,370	2,000	2,540	1,880	2,130
20	3,730	7,500	10,500	5,080	3,940	2,680	3,730	2,000	2,130	4,150	1,880	2,130
21	3,730	7,750	13,000	4,840	4,150	2,990	4,150	1,880	2,990	3,730	1,880	2,130
22	3,940	8,750	20,000	4,600	3,730	2,990	3,340	1,770	2,680	2,680	2,130	2,130
23	3,730	8,500	14,000	4,600	4,370	2,990	3,940	1,770	2,400	2,830	1,880	2,260
24	4,370	6,520	10,800	4,370	7,500	3,530	4,600	2,680	1,660	4,150	2,000	2,260
25	11,500	5,560	9,000	4,370	6,280	2,830	3,530	2,990	2,130	4,370	1,770	2,680
26	10,200	4,840	8,000	4,370	7,250	2,680	3,940	2,680	1,660	2,990	1,880	2,830
27	26,000	7,750	18,200	4,600	4,600	2,680	5,560	2,000	1,770	2,400	1,880	3,340
28	35,000	12,200	19,800	4,150	3,940	2,540	6,520	1,770	1,660	2,990	1,880	3,160
29	32,000	.....	18,800	4,370	3,730	2,540	5,560	1,880	1,660	2,260	1,880	4,150
30	21,500	.....	15,500	4,150	3,340	5,080	6,520	2,990	4,600	2,130	2,000	7,000
31	9,750	.....	11,800	.....	3,340	.....	4,600	2,130	.....	2,260	.....	7,000

Note.—Daily discharge Jan. 1 to Oct. 20, 1912, computed from a rating curve for the old gage at the Montgomery Street Bridge, the rating curve for this period being fairly well defined below 20,000 second-feet. Daily discharge Oct. 21 to Dec. 31, 1912, computed from a well-defined rating curve for the new gage one-half mile farther upstream.

Note.—Daily discharge determined from a rating curve well defined between 2,500 and 15,000 second-feet. Daily discharge Jan. 27-29 and Mar. 14-17, 1913, estimated from a hydrograph comparison with stations in the Chattahoochee River basin.

Daily discharge, in second-feet, of Chattahoochee River at West Point, Ga. Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1914												
1	5,560	2,680	4,150	7,500	2,830	1,660	1,280	1,770	2,130	1,870	1,660	7,250
2	4,600	2,680	3,530	5,560	2,680	1,560	1,560	1,770	2,000	1,880	1,560	13,200
3	5,800	2,830	3,340	4,370	2,680	1,660	1,460	1,560	2,540	2,130	1,660	10,800
4	5,320	2,680	3,160	3,730	2,680	1,770	1,560	1,880	2,540	1,660	1,660	12,200
5	4,370	2,680	2,990	3,340	2,680	2,540	1,880	1,880	2,000	2,400	1,660	21,000
6	3,530	2,540	2,990	3,160	2,830	2,990	2,540	2,130	1,660	4,150	1,660	23,500
7	3,530	4,370	2,830	2,830	2,680	2,540	2,130	1,660	1,460	2,990	1,660	23,200
8	3,160	9,750	2,830	3,340	2,680	2,130	2,260	2,000	1,280	2,000	1,660	15,500
9	2,830	7,250	2,680	3,340	2,830	1,880	1,660	2,540	1,370	1,770	1,660	7,000
10	2,830	5,560	2,400	5,080	2,680	2,000	2,400	8,000	1,200	1,660	1,880	5,080
11	2,990	3,940	2,830	4,150	2,540	1,880	1,880	6,280	1,200	1,660	2,680	4,840
12	2,540	3,340	3,730	3,730	2,000	1,770	1,880	5,560	1,200	1,460	2,130	4,150
13	2,680	3,340	4,370	3,530	2,260	1,770	1,660	9,500	1,460	1,560	2,260	4,150
14	2,540	3,530	4,150	6,520	2,000	2,400	1,560	7,250	1,370	1,880	1,770	4,840
15	2,540	3,530	3,530	15,800	2,000	1,880	1,370	5,320	1,280	3,940	7,500	4,600
16	2,400	3,340	3,160	15,500	1,880	2,400	1,280	7,750	1,280	14,000	9,250	4,150
17	2,400	3,340	2,990	16,800	1,880	2,260	3,340	4,370	1,200	17,200	9,000	3,730
18	2,400	3,340	2,990	8,750	2,130	2,260	5,560	2,540	1,280	14,800	7,750	3,730
19	2,260	2,990	2,680	6,040	2,000	5,320	3,940	2,130	1,660	6,280	4,370	3,340
20	2,400	3,160	2,990	8,750	1,770	3,940	3,160	2,000	4,370	3,940	2,990	3,730
21	2,400	2,990	2,830	9,250	1,770	2,680	2,130	2,400	2,130	2,830	2,540	3,530
22	2,260	3,340	3,340	7,000	1,460	2,260	1,880	2,540	1,880	2,260	2,540	3,530
23	2,400	4,600	3,340	5,320	1,770	1,880	1,660	1,880	1,770	2,260	2,130	3,730
24	2,400	3,530	2,680	4,370	1,880	1,660	1,460	2,260	1,560	2,000	2,130	3,940
25	2,830	3,340	2,830	3,940	1,770	1,560	1,370	2,400	1,560	2,000	2,000	4,150
26	2,990	3,340	2,540	3,730	1,880	1,460	1,370	2,000	1,560	1,880	2,000	3,940
27	2,540	3,530	2,680	3,530	1,660	1,370	1,280	1,880	1,460	2,000	2,130	14,500
28	2,400	3,530	3,160	3,160	1,560	1,370	1,880	1,560	1,370	1,770	2,130	18,800
29	2,540	.....	2,990	3,160	1,660	1,660	2,130	1,460	1,370	1,660	4,150	13,500
30	2,400	.....	2,680	2,990	1,660	1,460	2,400	1,560	1,370	1,660	4,840	14,000
31	2,830	.....	5,080	.....	1,880	.....	2,400	1,660	.....	1,660	.....	12,200

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1915									
1	9,500	10,800	7,500	5,080	3,340	13,500	4,600	1,770	2,130
2	6,760	18,500	6,760	4,600	3,160	20,200	15,200	1,770	2,130
3	5,560	15,200	6,280	4,600	3,160	10,200	11,800	1,880	1,880
4	4,840	15,200	6,040	4,600	2,680	6,280	6,040	1,880	1,880
5	4,370	10,800	11,500	4,370	3,160	4,840	10,200	1,880	8,000
6	5,320	11,000	14,200	4,150	2,830	3,940	19,800	2,000	6,280
7	12,200	10,200	11,800	4,150	4,150	4,600	13,000	2,000	3,340
8	12,800	8,750	10,000	3,940	15,200	3,530	6,040	2,000	2,680
9	13,000	7,500	8,250	3,940	18,800	3,530	7,250	1,660	2,540
10	8,000	6,520	7,000	3,940	14,500	3,340	15,200	1,770	2,000
11	6,520	6,040	6,520	3,940	7,750	3,340	15,200	3,160	1,880
12	12,000	5,800	6,040	4,150	7,250	3,340	9,250	2,990	1,770
13	10,500	5,800	5,800	3,730	6,520	4,150	3,940	2,830	1,660
14	9,250	5,560	5,560	3,940	9,750	3,940	3,340	2,400	1,880
15	7,750	6,760	5,320	3,940	10,800	3,160	4,150	2,130	2,830
16	6,040	9,000	5,320	3,940	6,040	3,160	4,150	4,370	2,990
17	9,250	8,500	5,320	3,730	4,600	2,990	3,530	3,340	2,990
18	15,000	8,750	5,080	3,730	3,940	3,940	2,990	2,680	2,400
19	16,000	6,760	5,080	3,730	3,940	2,990	2,990	3,730	1,880
20	15,200	6,040	5,080	3,160	3,530	2,680	2,830	3,530	1,660
21	13,800	5,800	4,840	3,730	3,530	2,680	2,680	4,600	1,660
22	9,000	5,320	4,840	3,340	3,340	2,540	2,830	4,150	1,660
23	7,500	5,560	4,840	3,340	2,990	2,400	2,400	3,160	1,560
24	16,500	10,800	4,600	3,530	3,160	2,400	2,400	2,540	1,770
25	20,500	15,800	4,370	3,530	2,830	2,260	2,400	3,160	1,770
26	18,200	16,800	4,600	3,160	3,160	2,260	2,260	2,260	1,660
27	15,500	12,800	4,600	2,830	4,150	2,540	2,130	2,130	1,460
28	10,800	8,500	4,370	3,730	9,000	2,400	2,000	1,880	1,460
29	8,250	.....	4,370	3,530	7,000	2,680	1,770	1,880	1,460
30	7,250	.....	4,370	3,940	4,150	2,540	1,770	2,400	1,660
31	6,760	.....	5,080	.....	4,370	.....	1,770	2,260	.....

Note.—At present all stream flow computations by the United States Geological Survey are prepared for the climatic year ending September 30. The year 1916 will begin with October 1, 1915, thus including three months of 1915.

Monthly discharge of Chattahoochee River at West Point, Ga.

[Drainage area, 3,300 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-feet per sq. mile.	Depth in inches.
1896					
August	10,800	1,000	2,854	0.86	0.99
September	5,880	780	1,469	.44	.49
October	5,620	930	1,624	.49	.56
November	19,900	1,490	5,074	1.54	1.72
December	5,880	1,720	3,114	.94	1.08
1897					
January	17,000	1,720	4,270	1.29	1.49
February	14,700	3,610	8,532	2.59	2.70
March	38,500	4,280	14,392	4.36	5.03
April	25,100	4,480	9,518	2.88	3.21
May	5,370	2,760	3,788	1.15	1.33
June	3,260	1,720	2,647	.80	.89
July	26,500	1,600	5,140	1.56	1.80
August	16,700	1,720	4,253	1.29	1.49
September	1,600	930	1,138	.34	.38
October	3,340	845	1,290	.39	.45
November	2,760	900	1,474	.45	.50
December	6,140	2,380	3,536	1.07	1.23
The year	38,500	845	4,998	1.51	20.50
1898					
January	10,800	1,970	3,321	1.01	1.16
February	3,430	1,840	2,319	.70	.73
March	6,140	1,970	2,785	.84	.97
April	20,750	2,310	6,931	2.10	2.34
May	3,700	1,540	2,285	.68	.78
June	2,100	1,180	1,491	.45	.50
July	15,240	900	4,262	1.29	1.49
August	23,940	3,170	8,615	2.61	3.01
September	57,350	1,600	11,080	3.36	3.75
October	40,330	1,600	9,511	2.88	3.32
November	10,110	3,890	5,904	1.79	2.00
December	9,834	3,795	5,272	1.60	1.84
The year	57,350	900	5,311	1.61	21.89
1899					
January	18,720	4,280	7,483	2.27	2.62
February	43,550	4,280	12,903	3.91	4.07
March	40,330	7,627	15,696	4.76	5.48
April	22,200	6,585	10,157	3.08	3.44
May	7,490	3,430	4,716	1.43	1.65
June	5,625	2,530	3,625	1.10	1.23
July	10,524	1,970	3,419	1.04	1.20
August	4,280	1,840	2,819	.85	.98
September	3,340	930	1,971	.60	.67
October	3,890	930	2,085	.63	.72
November	5,880	1,720	2,303	.70	.78
December	10,800	2,380	4,685	1.42	1.64
The year	43,550	930	5,989	1.82	24.48
1900					
January	8,316	2,380	4,554	1.38	1.59
February	63,330	2,380	14,652	4.44	4.62
March	16,690	5,625	8,941	2.71	3.13
April	19,880	4,920	9,563	2.90	3.23
May	8,040	3,700	5,024	1.52	1.75
June	55,510	3,890	13,983	4.24	4.73
July	31,570	4,280	9,277	2.81	3.24
August	11,904	3,000	4,418	1.34	1.54
September	31,570	2,100	6,212	1.88	2.10
October	8,040	2,530	4,094	1.24	1.43
November	8,040	2,680	4,054	1.23	1.37
December	14,112	3,840	6,571	1.99	2.29
The year	63,330	2,100	7,612	2.31	31.02

Monthly discharge of Chattahoochee River at West Point, Ga.—Continued.

[Drainage area, 3,300 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-feet per sq. mile.	Depth in inches.
1901					
January	42,630	4,920	11,748	3.56	4.11
February	37,100	4,920	10,015	3.03	3.16
March	33,410	4,280	7,952	2.41	2.78
April	23,360	4,920	11,022	3.34	3.73
May	52,750	4,700	10,814	3.28	3.79
June	16,110	4,920	8,487	2.57	2.87
July	12,456	3,000	4,964	1.50	1.73
August	52,290	3,000	12,982	3.93	4.54
September	32,030	3,520	7,145	2.16	2.41
October	11,628	2,840	3,883	1.18	1.36
November	4,280	2,380	2,835	.86	.96
December	88,630	2,380	12,116	3.67	4.24
The year	88,630	2,380	8,664	2.62	35.68
1902					
January	61,030	3,700	9,585	2.90	3.34
February	56,430	5,145	13,852	4.20	4.37
March	65,630	7,765	21,982	6.66	7.68
April	38,030	4,920	8,231	2.49	2.78
May	7,215	3,170	4,791	1.45	1.67
June	6,940	1,970	2,962	.90	1.00
July	5,145	1,600	2,988	.91	1.05
August	5,625	1,000	2,061	.62	.71
September	8,868	1,720	2,963	.90	1.00
October	4,920	1,720	2,603	.79	.91
November	9,972	1,840	3,460	1.05	1.17
December	22,490	3,170	7,187	2.18	2.51
The year	65,630	1,000	6,889	2.09	28.19
1903					
January	8,592	3,520	4,708	1.43	1.65
February	66,090	3,890	21,598	6.54	6.81
March	43,550	7,765	19,626	5.95	6.86
April	29,720	6,670	12,345	3.74	4.17
May	32,030	4,480	7,896	2.39	2.76
June	28,340	4,280	9,976	3.02	3.37
July	11,904	2,840	4,782	1.45	1.67
August	9,972	2,240	4,203	1.27	1.46
September	8,868	1,840	2,825	.86	.96
October	2,530	1,840	1,988	.60	.69
November	4,280	1,840	2,485	.75	.84
December	3,340	2,100	2,463	.75	.86
The year	66,090	1,840	7,908	2.40	32.10
1904					
January	9,000	2,240	3,520	1.07	1.23
February	11,380	3,000	5,447	1.65	1.78
March	10,300	3,340	4,858	1.47	1.70
April	4,500	2,680	3,107	.942	1.05
May	4,080	1,600	2,285	.692	.798
June	4,500	1,000	1,695	.514	.574
July	2,530	1,090	1,705	.517	.596
August	29,340	2,100	7,515	2.28	2.63
September	2,530	1,090	1,484	.450	.502
October	1,000	800	913	.277	.319
November	1,600	800	1,375	.417	.465
December	4,720	1,490	2,294	.695	.801
The year	29,340	800	3,016	.914	12.44

Monthly discharge of Chattahoochee River at West Point, Ga.—Continued.
(Drainage area, 3,300 square miles.)

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-feet per sq. mile.	Depth in inches.
1905					
January	29,340	2,100	5,363	1.63	1.88
February	19,770	2,380	8,915	2.70	2.81
March	4,500	2,840	3,733	1.13	1.30
April	3,890	1,840	2,930	.888	.991
May	7,740	2,380	3,869	1.17	1.35
June	3,520	1,380	2,257	.684	.763
July	18,030	1,180	5,724	1.73	1.99
August	10,840	1,090	3,743	1.13	1.30
September	3,170	1,090	1,505	.456	.509
October	4,500	1,280	2,032	.616	.710
November	3,340	1,556	1,923	.583	.650
December	32,240	1,816	10,380	3.15	3.63
The year	32,240	1,090	4,365	1.32	17.88
1906					
January	31,900	4,480	11,700	3.55	4.09
February	6,610	3,700	4,660	1.41	1.47
March	50,800	3,520	14,200	4.30	4.96
April	10,800	3,520	5,880	1.78	1.99
May	8,680	2,530	4,270	1.29	1.49
June	16,600	2,680	4,840	1.47	1.64
July	16,600	2,530	7,660	2.32	2.68
August	15,400	4,480	8,110	2.46	2.84
September	24,500	3,890	8,540	2.59	2.89
October	28,100	4,280	8,840	2.68	3.09
November	8,680	3,800	4,700	1.42	1.58
December	12,300	3,700	5,360	1.62	1.87
The year	50,800	2,530	7,400	2.24	30.59
1907					
January	18,000	4,080	6,170	1.87	2.16
February	27,100	4,280	8,350	2.53	2.64
March	28,800	3,890	7,680	2.33	2.69
April	15,700	3,800	6,790	2.06	2.30
May	13,900	3,890	5,990	1.82	2.10
June	5,730	2,760	3,600	1.09	1.22
July	7,980	1,840	3,280	.994	1.15
August	5,090	1,600	2,550	.773	.89
September	5,950	1,490	2,660	.806	.90
October	3,520	1,490	1,910	.579	.67
November	16,000	1,660	4,980	1.51	1.68
December	20,700	3,170	7,310	2.22	2.56
The year	28,800	1,490	5,110	1.55	20.96
1908					
January	18,300	4,580	7,840	2.38	2.74
February	29,100	5,950	13,100	3.97	4.28
March	28,100	4,480	8,520	2.58	2.97
April	40,500	3,890	10,400	3.15	3.51
May	11,300	4,880	6,620	2.01	2.32
June	5,950	2,760	4,170	1.26	1.41
July	7,060	2,100	3,460	1.05	1.21
August	17,200	1,840	4,190	1.27	1.46
September	8,920	1,600	2,620	.794	.89
October	4,780	1,490	2,290	.694	.80
November	5,950	1,970	2,850	.864	.96
December	25,200	2,380	6,450	1.95	2.25
The year	40,500	1,490	6,040	1.83	24.80

Monthly discharge of Chattahoochee River at West Point, Ga.—Continued.

[Drainage area, 3,300 square miles.]

Month.	Discharge in second-feet.			Per square Mile.	Run-off (depth in inches on drainage area).
	Maximum.	Minimum.	Mean.		
1909					
January	14,100	3,260	5,280	1.60	1.84
February	35,300	3,170	14,100	4.27	4.45
March	51,200	6,170	18,200	5.52	6.36
April	18,300	4,880	7,760	2.35	2.62
May	26,100	5,090	9,290	2.82	3.25
June	17,400	5,090	7,910	2.40	2.68
July	12,800	3,520	5,430	1.65	1.90
August	39,100	2,380	7,780	2.34	2.70
September	11,300	2,240	3,610	1.09	1.22
October	9,640	2,100	3,310	1.00	1.15
November	5,510	2,170	2,870	.870	.97
December	9,880	2,530	5,080	1.54	1.78
The year	51,200	2,100	7,550	2.29	30.92
1910					
January	7,500	3,280	4,630	1.40	1.61
February	15,400	3,780	6,440	1.95	2.03
March	13,900	3,440	5,360	1.62	1.87
April	13,600	2,960	4,530	1.37	1.53
May	22,800	2,590	6,450	1.95	2.25
June	12,100	3,280	5,030	1.52	1.70
July	22,500	2,810	6,530	1.98	2.28
August	12,800	2,240	4,100	1.24	1.43
September	9,950	1,740	3,040	.921	1.03
October	4,490	1,680	2,480	.752	.87
November	2,520	1,680	1,990	.603	.67
December	7,710	1,860	3,300	1.00	1.15
The year	22,800	1,680	4,480	1.36	18.42
1912					
January	32,800	3,560	8,280	.....	.....
February	28,400	4,130	11,000	.....	.....
March	61,600	7,300	18,300	.....	.....
April	31,500	5,720	13,100	.....	.....
May	11,800	3,370	6,630	.....	.....
June	44,200	3,560	11,400	.....	.....
July	13,300	2,820	7,020	.....	.....
August	12,600	2,140	4,330	.....	.....
September	7,770	1,700	3,270	.....	.....
October	9,730	2,640	4,270	.....	.....
November	3,940	2,260	3,000	.....	.....
December	7,480	2,540	4,010	.....	.....
The year	61,600	1,700	7,870	.....	.....
1913					
January	*35,000	3,340	7,810	2.37	2.73
February	17,500	4,370	7,940	2.41	2.51
March	*45,000	4,600	15,800	4.79	5.52
April	9,760	4,150	5,820	1.76	1.96
May	7,500	3,340	4,180	1.27	1.46
June	7,000	2,540	3,920	1.19	1.33
July	6,520	2,260	3,820	1.16	1.34
August	8,000	1,770	3,190	.967	1.11
September	4,600	1,560	2,040	.618	.69
October	5,800	1,420	2,570	.779	.90
November	2,260	1,770	1,950	.591	.66
December	7,000	2,130	2,980	.903	1.04
The year	*45,000	1,420	5,160	1.56	21.25

*Estimated.

Note.—On account of increased back water from Langdale Dam, and consequent change of rating, no discharge tables were prepared for 1911.

Monthly discharge of Chattahoochee River at West Point, Ga.—Continued.

(Drainage area, 3,300 square miles.)

Month.	Discharge in second-feet.			Per square mile	Run-off (depth in inches on drainage area).
	Maximum.	Minimum.	Mean.		
1914					
January	5,800	2,260	3,050	0.924	1.07
February	9,750	2,540	3,750	1.14	1.19
March	5,080	2,400	3,180	.964	1.11
April	16,800	2,830	5,940	1.80	2.01
May	2,830	1,460	2,150	.652	.75
June	5,320	1,370	2,130	.645	.72
July	5,560	1,280	2,070	.627	.72
August	9,500	1,460	3,210	.973	1.12
September	4,370	1,200	1,680	.509	.57
October	17,200	1,370	3,570	1.08	1.24
November	9,250	1,560	3,100	.939	1.05
December	23,500	3,340	8,900	2.70	3.11
The year	23,500	1,200	3,560	1.08	14.66
1915					
January	20,500	4,370	10,400	3.15	3.63
February	18,500	5,320	9,460	2.87	2.99
March	14,200	4,370	6,300	1.91	2.20
April	5,080	2,830	3,870	1.17	1.30
May	18,800	2,680	5,900	1.79	2.06
June	20,200	2,260	4,410	1.34	1.50
July	19,800	1,770	6,000	1.82	2.10
August	4,600	1,660	2,590	.785	.90
September	8,000	1,460	2,360	.715	.80

CHATTAHOOCHEE RIVER AT ALAGA, ALA.

Location.—At the Atlantic Coast Line Railway bridge one-fourth mile east of Alaga, 4 miles east of Gordon, and half a mile west of Saffold, Ga., about 35 miles above the junction of Chattahoochee and Flint rivers.

Records available.—Gage heights from January 1, 1908, to December 31, 1912.

Drainage area.—8,780 square miles (United States Weather Bureau figures).

Gage.—Standard chain gage attached to the railroad bridge; datum unchanged since 1908.

Channel.—Shifting; lack of conformity in discharge measurements indicates much change.

Discharge measurements.—Made from the railroad bridge.

Accuracy.—No rating has yet been developed, and no discharge tables have been prepared.

Cooperation.—The gage heights have been furnished by the United States Weather Bureau.

Discharge measurements of Chattahoochee River at Alaga, Ala.

Date.	Gage height. Feet.	Discharge. Sec.-ft.
1908		
June 15	6.26	8,180
1909		
August 8	7.35	9,940
November 30	2.77	4,530
1911		
October 21	2.33	4,780

Daily gage height, in feet, of Chattahoochee River at Alaga, Ala.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1908												
1	27.8	14.3	11.5	13.0	36.7	8.6	4.8	4.2	5.2	2.7	4.7	3.0
2	26.3	30.3	11.0	12.0	29.0	8.5	5.7	4.6	4.7	2.5	4.4	3.1
3	21.6	32.0	10.5	11.7	17.4	7.6	4.8	4.4	4.2	2.5	4.7	3.5
4	19.2	32.0	10.2	10.6	13.5	7.1	5.0	4.1	4.0	2.5	4.9	3.8
5	14.7	23.3	9.9	10.1	12.2	6.8	5.6	3.9	3.9	2.2	4.9	4.4
6	14.0	16.8	9.5	9.9	12.4	6.8	6.1	3.7	3.7	2.1	5.9	4.1
7	17.8	13.8	9.8	10.4	13.2	7.6	5.8	4.2	3.6	2.2	7.0	3.7
8	25.6	12.9	9.7	10.4	13.5	7.9	7.5	4.9	4.5	2.2	6.2	3.6
9	25.9	12.2	9.4	10.0	13.5	7.0	10.0	5.2	8.6	2.4	5.2	3.8
10	24.8	11.5	9.2	9.6	13.4	6.4	9.9	6.3	8.1	2.6	4.4	4.7
11	17.0	13.0	9.0	9.5	12.7	6.0	8.2	5.8	6.7	3.2	4.1	8.0
12	16.5	17.9	8.7	9.1	11.5	6.1	8.0	5.6	5.0	3.3	3.8	11.1
13	17.5	19.3	8.6	8.9	10.3	6.7	8.1	5.2	4.3	4.2	3.6	8.1
14	16.7	19.1	8.5	8.6	9.7	6.9	7.0	4.7	3.8	4.5	3.7	8.6
15	16.3	18.9	8.5	8.4	9.2	6.3	6.8	4.1	3.4	5.0	3.6	8.0
16	16.3	21.6	8.4	8.1	8.9	6.1	5.8	3.6	3.2	4.4	3.5	5.5
17	14.0	25.5	8.4	10.2	8.5	6.3	5.3	3.2	3.0	3.1	3.5	5.0
18	12.4	26.3	8.3	14.0	8.3	6.5	5.3	3.1	2.9	2.7	3.6	4.7
19	11.4	23.7	8.0	13.3	8.2	6.7	5.7	3.1	2.8	2.5	3.6	4.4
20	10.9	24.1	7.9	12.3	9.1	6.3	4.9	3.3	2.8	2.3	3.4	4.2
21	10.2	21.1	7.9	11.3	10.0	6.4	5.5	3.9	3.1	2.5	3.6	4.0
22	9.9	17.6	7.9	10.4	9.5	5.7	5.5	4.6	3.3	2.4	3.5	3.9
23	9.8	15.1	9.6	11.9	8.7	5.6	5.7	6.1	3.3	2.5	3.5	4.5
24	10.0	13.8	25.5	15.4	8.5	5.6	5.9	7.9	3.1	2.5	3.4	12.5
25	9.8	12.7	34.5	17.3	7.7	6.5	4.8	7.2	3.1	2.3	3.3	17.0
26	9.3	12.2	36.5	17.5	7.5	7.6	5.4	9.7	3.1	2.4	3.0	14.7
27	9.0	12.2	35.3	24.9	7.8	7.1	5.9	16.3	3.0	2.4	3.1	11.5
28	8.8	12.4	32.0	33.5	7.6	6.0	5.5	16.9	3.1	2.4	3.2	8.6
29	8.6	12.2	24.7	37.1	8.4	5.3	5.8	13.5	3.0	3.4	3.3	6.8
30	8.5	.....	17.4	38.2	8.6	5.0	5.1	9.1	3.0	4.5	3.1	6.4
31	8.3	.....	14.4	.....	7.9	.....	4.4	6.4	.....	4.6	.....	5.5

Daily gage height, in feet, of Chattahoochee River at Alaga, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1909												
1	5.3	4.0	11.2	11.7	14.0	8.7	8.0	6.6	2.8	3.6	2.3	2.7
2	5.3	3.9	9.9	11.1	15.4	7.8	8.3	7.6	4.8	3.2	2.3	2.7
3	5.3	3.8	9.2	10.2	19.5	7.7	7.4	7.6	8.7	3.2	2.3	2.6
4	5.2	3.8	8.6	9.7	20.4	8.7	7.2	8.0	5.4	2.6	2.6	2.5
5	4.9	3.8	8.5	9.2	19.8	15.4	6.4	13.8	3.8	2.1	2.6	2.5
6	4.9	3.8	8.4	9.0	17.8	19.2	6.1	21.3	3.5	2.3	3.0	2.4
7	4.7	4.9	8.3	8.8	14.2	16.5	5.6	20.7	3.3	2.6	2.8	2.6
8	6.3	6.5	8.4	9.1	11.5	14.9	5.2	16.4	3.1	2.3	2.6	3.4
9	10.8	7.6	9.5	9.5	10.0	13.3	5.6	14.6	3.0	2.2	2.4	3.9
10	9.5	7.4	13.4	10.7	9.0	10.0	9.6	12.2	3.1	3.2	2.4	3.8
11	7.2	21.6	20.2	10.5	8.4	8.3	12.8	9.3	3.0	2.1	2.6	5.6
12	6.0	27.6	28.5	9.6	11.3	7.6	12.8	8.2	3.4	2.1	2.6	7.1
13	5.6	26.5	31.1	8.9	11.9	7.2	9.4	7.3	3.2	2.3	2.3	6.3
14	5.3	20.2	31.8	8.8	9.3	6.8	9.1	6.5	3.0	2.5	2.1	5.3
15	5.2	15.0	33.7	9.3	8.1	7.6	9.7	6.5	3.6	2.3	2.3	8.0
16	5.0	19.7	35.3	9.7	7.3	7.6	9.7	7.1	3.5	2.1	2.3	9.3
17	5.1	26.1	34.4	9.2	6.9	7.8	7.9	8.7	3.1	2.5	2.3	7.5
18	5.2	27.9	30.5	8.5	7.3	7.9	7.7	7.7	3.5	4.0	2.5	7.5
19	6.5	25.9	24.6	8.0	7.9	7.6	7.8	6.8	4.4	7.5	2.3	6.5
20	8.4	20.5	16.4	7.5	8.1	7.7	7.3	6.0	4.2	6.2	2.5	5.6
21	9.0	18.2	21.6	7.4	9.0	7.1	7.0	5.4	4.4	4.5	3.0	5.1
22	7.8	16.0	31.1	7.1	9.0	8.2	6.1	4.6	4.5	3.8	2.8	5.0
23	6.5	14.3	33.5	6.9	9.3	10.2	6.5	4.2	4.2	3.4	2.5	4.9
24	5.5	16.3	30.8	7.1	9.5	11.2	7.5	3.8	4.0	3.5	2.8	4.5
25	5.3	17.6	21.8	9.0	11.3	9.8	7.2	3.7	4.4	4.5	3.3	4.2
26	5.0	17.8	15.1	14.2	12.0	8.2	7.0	3.6	5.4	4.9	4.5	4.2
27	5.0	17.0	13.6	15.1	11.5	8.0	6.1	3.4	7.9	4.1	4.8	4.6
28	4.7	13.8	13.2	16.3	10.6	7.9	5.6	3.3	8.1	3.5	4.0	5.6
29	4.6	.....	13.2	16.9	9.9	7.2	5.1	3.1	6.0	3.1	3.4	5.9
30	4.4	.....	13.2	15.8	10.4	7.9	4.8	3.0	4.2	2.7	2.9	5.0
31	4.0	.....	12.5	.....	9.3	.....	5.0	2.9	.....	2.7	.....	4.8
1910												
1	4.3	10.0	13.6	4.7	5.4	5.2	5.4	4.2	2.5	1.7	1.1	2.5
2	3.9	8.2	24.0	4.5	5.1	4.6	6.8	5.2	2.5	1.7	1.2	2.4
3	3.6	6.8	22.5	4.5	4.9	4.2	15.5	4.4	3.4	3.0	1.4	2.2
4	3.6	6.1	18.5	4.3	4.8	3.9	14.7	3.8	4.0	2.4	1.2	1.8
5	3.8	6.3	15.2	4.1	4.4	3.7	16.2	3.8	8.1	2.4	1.2	1.6
6	3.4	7.8	12.5	4.4	4.2	3.6	15.4	4.1	8.0	2.1	1.4	1.8
7	3.7	7.0	10.6	4.3	4.0	3.7	12.8	6.1	5.5	2.2	1.4	2.5
8	4.2	5.9	9.2	4.3	3.9	4.5	9.9	8.8	4.3	2.4	1.2	5.7
9	5.3	5.3	8.5	4.3	3.9	4.9	8.8	9.7	3.3	2.5	1.4	6.6
10	6.8	4.9	7.8	4.0	4.3	5.7	9.2	11.6	3.0	2.9	1.9	6.5
11	6.3	4.9	7.4	3.8	5.3	8.1	9.3	9.3	4.1	3.7	1.7	6.0
12	6.2	5.6	7.4	3.7	5.3	7.5	8.4	7.3	4.9	4.0	1.5	5.6
13	5.4	6.6	8.4	4.1	9.6	8.0	8.0	5.5	4.1	3.9	1.4	4.6
14	4.6	7.7	8.7	5.9	8.4	7.8	8.1	4.6	3.6	3.8	1.2	3.3
15	4.2	7.3	8.1	5.7	5.8	7.1	6.7	5.3	3.2	3.1	1.1	3.0
16	4.0	6.3	7.4	5.0	5.1	7.6	5.6	4.6	3.1	2.5	1.0	2.5
17	3.8	5.5	6.7	7.8	4.8	8.7	5.1	3.5	3.0	2.0	1.5	2.5
18	3.6	6.2	6.3	26.4	4.4	7.8	5.2	3.4	2.5	1.8	1.3	2.1
19	3.7	12.2	6.0	27.6	4.1	6.4	6.3	3.3	1.9	1.6	1.6	2.9
20	3.6	15.0	5.8	23.0	4.1	5.6	10.6	3.6	1.5	1.7	2.1	2.9
21	3.7	14.8	5.7	15.7	4.3	4.8	9.5	3.9	1.6	1.4	2.1	2.9
22	4.3	13.8	5.7	11.1	4.0	4.4	7.2	3.6	2.0	1.3	1.6	2.8
23	4.7	13.8	5.7	8.7	5.7	4.9	5.6	3.2	1.5	1.2	1.8	2.0
24	6.0	13.7	5.5	7.5	8.3	6.7	5.6	3.3	1.4	1.0	2.0	2.6
25	6.0	14.2	5.4	6.8	9.7	6.6	6.1	2.7	1.7	.9	1.6	2.0
26	6.0	16.9	5.2	6.4	11.0	6.1	6.0	2.5	1.6	.9	1.5	1.9
27	6.0	14.6	5.1	6.1	15.1	5.2	6.6	2.3	1.4	1.1	1.2	2.7
28	5.8	12.0	5.1	5.6	14.1	5.0	5.6	2.2	1.4	1.3	1.4	2.7
29	8.3	.....	4.9	5.6	10.4	4.7	5.0	2.1	1.5	1.4	1.9	2.6
30	13.0	.....	4.9	5.5	8.1	4.3	4.4	1.8	1.4	1.3	1.9	2.8
31	12.0	.....	4.8	.....	6.2	.....	3.9	2.0	.....	1.2	.....	3.5

Daily gage height, in feet, of Chattahoochee River at Alaga, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1911												
1	4.0	3.4	3.9	6.5	4.6	2.2	2.1	1.4	0.9	0.4	3.0	2.9
2	4.4	3.3	3.7	5.4	4.8	2.0	1.9	1.1	.8	.5	2.3	3.0
3	4.7	3.3	3.5	4.4	5.4	1.8	1.8	2.5	.8	.1	1.5	2.6
4	11.9	3.3	3.4	3.9	6.9	1.7	1.7	8.1	.7	— .4	1.8	2.8
5	18.2	3.0	3.3	3.7	5.7	1.7	1.8	10.1	1.1	— .1	1.6	2.4
6	18.5	3.0	3.3	5.5	4.9	1.6	2.0	6.8	1.3	.2	1.6	2.1
7	16.1	3.1	3.3	8.2	4.4	1.8	2.3	5.5	2.4	.1	1.2	2.1
8	13.2	3.6	3.4	12.8	4.0	1.8	3.0	4.5	2.8	— .3	1.4	2.1
9	9.8	4.6	3.1	13.7	3.6	1.4	2.8	5.3	2.5	— .6	2.1	2.0
10	7.4	5.2	3.2	15.3	3.6	1.2	2.7	4.2	2.4	— .6	3.2	1.7
11	6.8	4.6	3.1	15.0	3.3	1.2	2.5	3.5	1.6	— .5	7.6	1.7
12	5.9	5.6	3.1	16.2	3.2	1.3	3.4	2.9	1.4	.1	10.8	1.5
13	5.5	7.6	2.9	14.9	2.9	1.1	3.3	2.4	1.5	1.2	9.4	1.6
14	5.1	10.1	3.4	12.3	2.7	1.1	2.9	2.3	1.4	.0	8.2	1.9
15	4.8	10.5	7.0	10.3	2.5	1.4	5.1	2.2	1.2	.2	5.8	1.9
16	4.5	8.2	3.0	9.0	.....	1.1	6.2	2.2	1.0	3.5	3.9	2.9
17	4.4	6.8	2.8	8.7	2.6	.7	7.0	2.6	.9	2.3	3.0	2.9
18	4.3	6.1	2.7	8.0	2.6	.7	6.8	1.8	.6	2.2	3.0	2.6
19	4.0	5.3	2.5	7.4	2.5	.7	6.4	2.0	.2	1.9	2.8	2.3
20	3.8	4.8	2.6	7.1	2.5	.8	8.8	3.8	— .3	2.0	2.3	1.9
21	3.6	5.4	2.5	7.5	2.5	.8	8.9	4.7	.6	2.2	2.2	4.6
22	3.8	5.6	2.8	8.1	2.4	1.1	7.4	3.6	1.3	4.6	2.4	7.7
23	3.7	6.0	3.2	7.6	2.5	2.0	5.7	2.6	1.8	5.4	2.6	20.3
24	3.5	5.2	3.2	6.0	3.9	3.5	4.8	2.0	1.5	3.6	2.2	25.0
25	3.5	4.8	3.3	5.7	4.7	3.0	4.7	1.4	1.3	3.1	2.0	22.1
26	3.7	4.5	3.5	5.1	5.9	2.2	3.9	1.0	.7	1.7	2.3	20.1
27	3.6	4.2	6.7	4.6	5.0	1.6	3.1	.9	.2	1.3	1.6	17.3
28	3.5	3.9	6.6	4.4	4.1	1.7	2.3	.9	.4	1.4	1.9	13.7
29	3.4	.....	11.1	4.4	3.5	2.3	2.3	.8	.7	1.5	3.1	11.9
30	3.2	.....	8.9	4.6	2.9	2.3	2.1	.4	.4	3.4	4.4	11.0
31	3.2	.....	7.1	.....	2.7	.....	1.8	.5	.....	2.3	.....	9.7
1912												
1	11.9	29.7	17.6	25.6	16.5	7.6	11.2	5.0	5.1	6.8	3.6	4.1
2	16.9	28.6	15.5	23.0	16.9	10.1	9.3	5.2	4.3	6.7	4.0	4.5
3	15.9	23.3	13.1	21.2	14.9	9.8	9.6	6.1	3.3	6.2	4.3	4.3
4	15.5	16.1	12.0	16.7	14.2	8.3	10.4	10.0	3.9	5.5	4.3	4.4
5	15.9	12.2	12.1	13.6	16.4	8.4	10.7	9.9	4.6	5.3	3.3	4.9
6	13.9	10.4	14.2	12.5	14.7	8.1	9.9	7.3	4.1	5.0	4.0	5.8
7	11.3	9.3	19.8	11.8	15.9	9.2	9.7	7.7	3.6	9.0	9.0	7.5
8	10.3	8.5	20.5	11.2	16.2	13.3	9.8	6.8	3.8	9.2	12.4	8.6
9	21.3	8.1	18.6	10.9	15.2	12.7	10.7	8.1	3.8	8.6	9.9	7.5
10	25.3	7.9	16.0	10.7	15.0	11.9	12.7	12.0	3.2	6.4	7.7	6.6
11	22.8	7.7	14.9	10.8	13.8	10.4	12.4	11.9	3.4	5.3	6.9	6.5
12	18.7	7.3	14.3	10.8	12.2	8.8	12.3	11.9	4.0	4.8	6.2	5.8
13	14.8	8.2	19.9	10.9	12.2	7.6	11.5	13.7	4.2	4.2	5.9	5.6
14	12.7	8.9	20.3	11.2	11.4	7.4	11.8	12.6	4.1	4.4	4.6	5.6
15	11.3	8.8	18.6	10.9	10.9	7.1	13.3	9.7	4.2	9.4	5.3	5.4
16	10.0	10.7	31.1	10.5	10.2	18.6	12.4	7.5	4.7	9.2	4.5	4.8
17	9.3	11.3	36.0	10.9	9.5	24.4	10.7	6.7	4.4	7.1	4.0	4.6
18	8.6	16.1	37.7	21.8	8.9	24.5	11.7	6.8	4.0	5.7	3.8	4.8
19	8.3	15.1	38.1	30.2	9.0	21.2	16.6	8.5	5.1	5.6	3.3	5.1
20	8.3	14.3	37.1	30.4	8.5	14.4	12.3	7.9	6.9	9.1	2.9	4.7
21	8.9	12.1	34.3	32.7	8.0	10.5	10.7	8.0	6.0	8.8	3.6	4.4
22	8.9	15.9	25.7	37.5	8.3	8.5	9.7	8.5	5.0	9.2	3.8	4.8
23	8.5	19.4	16.7	38.9	7.6	7.6	8.8	7.7	5.5	8.9	3.8	4.9
24	7.8	20.1	14.4	38.5	7.7	6.9	8.1	8.2	6.0	9.1	3.9	8.5
25	7.2	22.1	16.3	36.9	7.2	7.1	7.3	7.7	8.4	8.7	4.0	16.7
26	6.9	25.5	21.5	32.2	7.7	10.1	6.9	7.0	8.0	6.8	3.7	15.9
27	6.8	24.4	21.6	26.3	6.9	11.0	6.7	7.7	7.2	5.5	3.4	13.0
28	6.6	21.2	18.2	18.9	6.5	17.4	7.0	7.6	8.5	4.9	4.0	11.8
29	6.3	18.8	15.8	15.6	7.1	17.8	6.3	7.2	7.2	4.6	4.2	10.2
30	10.0	.....	18.7	15.1	7.1	14.2	5.9	5.8	6.7	4.5	3.6	9.5
31	25.0	.....	24.4	.....	7.5	.....	5.5	5.5	.....	4.4	.....	8.5

Choctawhatchee River Drainage Basin.

DESCRIPTION.

Choctawhatchee River drains the southeastern part of Alabama and that portion of Florida lying immediately south. The main river rises in Barbour County, Ala., a short distance west of Eufaula, Ala., and flows in a southwesterly and southerly direction through Choctawhatchee Bay to the Gulf of Mexico. Pea River, the principal tributary, enters from the west at Geneva, Ala. This branch is the longer of the two above the junction, having its head in Bullock County near Union Springs, Ala.

The basin is small, lying entirely in the Coastal Plain. The land is usually well elevated above the streams, and is rolling and even hilly at places. The surface is as a rule sandy, and is underlain by sandy limestones and clays which are exposed in many places in the stream beds as solid rocks but are usually soft.

The mean annual rainfall in the area is about 55 inches. The streams are moderately swift, even at low water, and at places the fall is sufficient to make considerable shoals or rapids and offer practicable sites for water-power development.

The following gaging stations have been maintained in this river basin.

Choctawhatchee River near Newton, Ala., 1906-1908, 1911-1912.
Choctawhatchee River near Geneva, Ala., 1904.
Double Bridges Creek at Geneva, Ala., 1904.
Pea River at Pera, Ala., 1904-1913.
Pea River at Elba, Ala., 1906.

CHOCTAWHATCHEE RIVER NEAR NEWTON, ALA.

Location.—At the wagon bridge 1 mile west of Newton, Ala., and 1 mile below the railroad crossing at Elba Junction, Ala., about 5 miles below the mouth of West Choctawhatchee River.

Records available.—June 11 to October 13, 1906; April 22, 1907, to August 22, 1908; October 20, 1911, to August 3, 1912.

Drainage area.—Not determined.

Gage.—Standard chain gage attached to the downstream side of the wagon bridge; datum unchanged. The gage heights during 1906 were taken from a vertical gage near Elba Junction, but they were reduced to agree with the chain gage.

Channel.—Both banks are high and not likely to overflow. Conditions of flow may possibly be affected by dredging of channel.

Discharge measurements.—Made from the wagon bridge.

Artificial control.—Probably some effect from small power plant above.

Accuracy.—No rating was developed for the changed conditions of section in 1911-12.

Discharge measurements of Choctawhatchee River near Newton, Ala.

Date.	Gage height. Feet.	Discharge. Sec.-ft.
1906		
February 21	4.40	1,260
June 11	3.08	416
August 15	3.98	867
September 20	2.71	812
1907		
January 23	3.76	747
April 22	4.88	1,720
April 25	5.49	2,200
November 22	4.32	1,130
1908		
June 15	3.46	572
1909		
August 4	2.91	871
1911		
October 20	2.67	819
October 20	2.67	827

Daily gage height, in feet, of Choctawhatchee River near Newton, Ala., for 1906.

Day.	June.	July.	Aug.	Sept.	Oct.	Day.	June.	July.	Aug.	Sept.	Oct.
1	.....	3.6	3.3	2.8	4.5	17	4.4	4.5	3.1	2.6	.....
2	.....	4.5	3.1	2.8	5.0	18	4.1	4.5	3.2	2.5	.....
3	.....	3.4	2.9	2.8	5.1	19	3.8	4.5	2.8	2.7	.....
4	.....	3.2	2.7	2.8	5.1	20	3.2	4.3	2.5	2.9	.....
5	.....	3.2	.....	2.3	4.3	21	3.1	3.6	2.5	3.3	.....
6	.....	3.2	.....	2.3	5.0	22	2.85	3.5	2.5	3.9	.....
7	.....	3.1	.....	3.0	5.0	23	2.8	3.2	2.8	3.5	.....
8	.....	2.7	.....	3.8	4.9	24	2.7	3.3	3.0	3.0	.....
9	.....	3.2	.....	4.1	4.7	25	2.7	3.5	3.9	3.0	.....
10	.....	3.3	.....	4.3	4.3	26	2.7	3.8	3.3	3.0	.....
11	3.1	3.7	.....	5.0	4.0	27	3.1	4.3	3.1	3.0	.....
12	3.3	4.6	2.7	4.2	4.0	28	3.1	4.5	3.1	4.1	.....
13	3.4	4.9	2.7	4.1	3.9	29	3.0	4.5	2.8	4.8	.....
14	3.5	4.5	3.3	3.1	.....	30	3.2	3.7	2.8	4.7	.....
15	4.2	4.5	3.8	3.0	.....	31	.....	3.5	2.8	.....	.....
16	4.5	4.8	3.9	2.5	.....						

Daily gage height, in feet, of Choctawhatchee River near Newton, Ala. Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1907.												
1					5.4	3.2	2.95	3.6	2.75	6.0	3.0	5.7
2					5.7	3.2	3.35	3.55	2.75	5.3	3.2	5.3
3					5.0	3.15	3.6	3.5	2.6	5.1	3.2	5.0
4					4.7	3.0	3.8	3.35	4.0	4.3	3.4	4.6
5					4.4	2.9	3.7	3.2	3.9	4.1	3.3	4.2
6					4.2	2.9	3.65	3.3	3.65	4.1	3.15	4.1
7					3.95	2.9	3.45	3.2	3.2	4.0	3.1	4.0
8					3.8	2.9	3.35	3.35	3.3	4.0	3.1	4.7
9					3.95	2.75	3.15	3.5	3.35	3.9	3.1	7.7
10					4.2	2.7	2.9	3.75	3.3	3.75	3.3	7.4
11					4.3	2.7	2.7	5.7	3.2	3.7	3.2	6.0
12					4.2	3.0	2.6	5.3	3.45	3.55	3.4	5.7
13					3.85	3.35	2.45	4.3	3.35	3.4	3.5	9.2
14					3.7	3.15	3.05	3.9	3.25	3.3	3.35	9.6
15					4.0	2.85	3.9	3.4	3.15	3.15	3.25	9.4
16					4.3	2.65	3.75	3.3	2.85	3.1	3.2	8.5
17					4.2	2.55	3.45	3.15	2.85	3.0	3.15	7.0
18					3.95	2.5	3.8	3.0	2.75	3.1	3.3	5.8
19					3.8	2.4	3.65	2.9	2.85	3.1	3.4	5.2
20					3.55	2.5	3.35	2.75	3.6	3.05	3.4	4.8
21					3.4	2.4	3.15	2.85	4.2	3.0	3.7	4.6
22				4.9	3.3	2.5	3.05	3.0	4.6	3.0	4.4	6.0
23				6.6	3.15	2.5	2.85	3.35	5.0	3.0	5.4	9.0
24				6.2	3.2	2.6	2.8	3.1	4.9	3.0	6.0	8.8
25				5.6	3.2	2.7	3.1	4.2	3.85	3.0	5.4	7.8
26				5.2	3.3	2.9	3.2	5.0	3.75	3.0	5.0	6.3
27				4.8	3.4	2.9	5.4	4.6	3.8	3.0	4.5	6.0
28				4.4	3.4	2.9	5.0	4.4	7.2	3.3	6.2	7.6
29				4.9	3.3	2.9	4.6	3.9	10.3	3.2	6.6	8.7
30				5.4	3.2	2.8	4.2	3.4	7.4	3.15	6.2	9.2
31					3.2		3.75	2.85		3.1		9.0
1908.												
1	8.8	12.8	5.0	5.4	7.6	3.85		3.25				
2	7.4	11.7	4.8	5.2	6.1	3.8		3.75				
3	6.2	9.0	4.6	5.1	5.6	3.8		3.55				
4	6.5	7.5	4.6	5.0	5.4	3.8		3.5				
5	5.9	6.6	4.6	4.8	5.2	3.7	3.8	3.2				
6	7.4	6.0	4.5	4.7	5.8	3.7	3.6	3.0				
7	11.6	5.6	4.5	5.2	6.0	3.6	3.25	3.0				
8	10.0	5.2	4.4	5.1	5.8	3.55	2.15	2.9				
9	9.4	5.6	4.4	4.8	5.6	3.9	3.65	3.75				
10	8.9	6.6	4.3	4.6	5.4	3.8	3.65	3.55				
11	8.5	6.1	4.2	4.5	5.0	3.7	3.9	3.5				
12	7.9	5.8	4.2	4.4	4.8	3.6	4.05	3.2				
13	7.1	6.0	4.9	4.2	4.5	3.6	3.95	3.0				
14	6.6	6.5	5.1	4.2	4.2	3.5	3.95	3.0				
15	6.4	6.6	4.4	5.2	4.2	3.5	3.95	2.9				
16	6.0	6.2	4.2	5.1	4.1	3.4	3.7	2.85				
17	5.8	5.7	4.2	4.8	4.1	3.55	3.45	2.7				
18	5.6	5.4	4.1	4.6	4.0	3.5	3.3	2.6				
19	5.4	9.6	4.1	4.6	4.0	3.35	3.35	2.85				
20	5.2	7.8	4.2	4.5	3.9	3.25	3.75	3.0				
21	5.0	6.8	4.2	4.4	3.9	3.2	3.75	3.65				
22	5.0	6.2	5.2	7.0	3.8	3.5	4.15	3.9				
23	4.9	5.5	12.0	6.4	3.8	3.4	4.25					
24	4.8	5.1	20.6	6.0	3.7	3.4	4.25					
25	5.2	5.0	24.2	9.5	3.6	3.3	6.0					
26	5.0	5.8	15.5	9.0	3.5	3.1	4.8					
27	4.8	5.4	5.8	17.8	3.65	3.1	4.4					
28	4.8	5.2	7.0	21.5	4.6	3.0	3.95					
29	4.6	5.0	6.2	13.8	4.2	2.95	3.6					
30	4.7		5.8	10.0	3.95	2.9	3.5					
31	5.8		5.5		3.9		3.4					

Daily gage height, in feet, of Choctawhatchee River near Newton, Ala., for 1911.

Day.	Oct.	Nov.	Dec.	Day.	Oct.	Nov.	Dec.	Day.	Oct.	Nov.	Dec.
1	.....	2.7	3.5	11	.....	2.9	2.7	21	2.3	2.4	4.5
2	.....	2.6	3.4	12	.....	2.8	2.9	22	2.7	2.4	4.0
3	.....	2.4	3.4	13	.....	2.7	2.9	23	2.7	2.3	17.4
4	.....	2.3	3.3	14	.....	2.6	2.8	24	2.6	2.4	12.4
5	.....	2.3	3.2	15	.....	2.6	2.7	25	2.6	2.5	7.6
6	.....	2.7	3.0	16	.....	2.5	3.0	26	2.5	2.4	6.7
7	.....	3.1	3.1	17	.....	2.5	3.2	27	2.4	2.6	5.6
8	.....	3.2	3.0	18	.....	2.6	3.6	28	2.3	4.1	5.4
9	.....	3.1	2.8	19	.....	2.5	3.5	29	2.4	4.0	5.3
10	.....	3.0	2.9	20	2.7	2.4	4.0	30	2.5	3.8	5.3
								31	2.4	.....	5.0

Daily gage height, in feet, of Choctawhatchee River near Newton, Ala., for 1912.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec
1	8.0	5.0	6.0	5.8	5.2	5.4	2.6	3.3	.....	.....	.....	.....
2	10.0	5.0	5.8	5.7	5.2	5.9	3.7	3.2	.....	.....	.....	.....
3	9.0	4.0	4.8	5.1	5.1	5.7	3.8	4.0	.....	.....	.....	.....
4	8.5	3.9	4.6	5.2	5.0	5.5	3.9	.....	.....	.....	.....	.....
5	7.0	3.8	4.5	5.4	5.0	4.4	4.4	.....	.....	.....	.....	.....
6	7.0	3.6	6.6	5.6	4.8	4.3	4.6	.....	.....	.....	.....	.....
7	12.0	3.4	6.1	5.6	4.6	4.0	4.6	.....	.....	.....	.....	.....
8	19.1	3.2	6.0	5.8	4.5	4.6	4.5	.....	.....	.....	.....	.....
9	20.0	5.0	5.4	5.9	5.0	4.8	4.4	.....	.....	.....	.....	.....
10	16.0	6.0	5.0	6.0	5.0	5.2	4.4	.....	.....	.....	.....	.....
11	10.0	6.3	8.0	6.2	4.8	5.3	4.6	.....	.....	.....	.....	.....
12	8.0	6.5	10.0	6.9	4.4	5.0	4.6	.....	.....	.....	.....	.....
13	7.6	6.6	13.6	11.0	4.2	4.9	4.7	.....	.....	.....	.....	.....
14	7.0	7.6	16.0	13.0	3.6	4.7	4.8	.....	.....	.....	.....	.....
15	6.5	5.6	16.0	21.6	3.4	4.4	4.5	.....	.....	.....	.....	.....
16	5.6	5.0	15.5	21.6	3.3	4.0	3.9	.....	.....	.....	.....	.....
17	5.4	5.0	10.4	15.6	3.0	3.9	3.4	.....	.....	.....	.....	.....
18	5.0	4.8	8.0	10.0	3.4	3.4	4.0	.....	.....	.....	.....	.....
19	4.8	4.6	6.8	8.0	4.0	3.3	3.8	.....	.....	.....	.....	.....
20	4.7	4.5	5.8	6.0	4.3	3.2	3.6	.....	.....	.....	.....	.....
21	4.2	5.7	5.4	5.8	5.2	3.1	3.4	.....	.....	.....	.....	.....
22	4.0	6.5	5.2	5.6	6.0	3.1	3.2	.....	.....	.....	.....	.....
23	3.7	7.0	5.8	5.3	6.2	3.0	3.2	.....	.....	.....	.....	.....
24	3.6	8.0	5.8	5.0	5.4	3.0	3.1	.....	.....	.....	.....	.....
25	3.4	8.6	6.0	5.4	5.0	2.9	3.1	.....	.....	.....	.....	.....
26	3.3	9.0	5.4	5.6	5.0	2.8	3.2	.....	.....	.....	.....	.....
27	3.4	10.0	5.2	5.8	5.8	2.7	3.2	.....	.....	.....	.....	.....
28	3.6	9.0	5.2	6.0	5.4	2.7	3.1	.....	.....	.....	.....	.....
29	4.0	9.0	5.0	6.2	5.4	2.5	3.0	.....	.....	.....	.....	.....
30	6.9	.....	5.4	5.8	5.5	2.5	3.0	.....	.....	.....	.....	.....
31	6.0	.....	5.6	.....	5.3	.....	3.2	.....	.....	.....	.....	.....

Daily discharge, in second feet, of Choctawhatchee River near Newton, Ala.

Day.	June.	July.	Aug.	Sept.	Oct.	Day.	June.	July.	Aug.	Sept.	Oct.
1906.						1906.					
1	.....	650	510	330	1,290	17	1,200	1,290	430	250	.....
2	.....	1,290	430	330	1,740	18	970	1,290	470	250	.....
3	.....	555	360	330	1,830	19	770	1,290	330	300	.....
4	.....	470	300	330	1,830	20	470	1,120	250	360	.....
5	.....	470	350	202	1,120	21	430	650	250	510	.....
6	.....	470	350	202	1,740	22	345	600	250	830	.....
7	.....	430	350	395	1,740	23	330	470	330	600	.....
8	.....	300	350	770	1,650	24	300	510	395	395	.....
9	.....	470	350	970	1,470	25	300	600	830	395	.....
10	.....	510	350	1,120	1,120	26	300	770	510	395	.....
11	430	710	350	1,740	900	27	430	1,120	430	395	.....
12	510	1,380	300	1,120	900	28	430	1,290	430	970	.....
13	555	1,650	300	970	830	29	395	1,290	330	1,560	.....
14	600	1,290	510	430	.....	30	470	710	330	1,470	.....
15	1,040	1,290	600	395	.....	31	.....	600	330	.....	.....
16	1,290	1,290	830	250	.....						

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1907.												
1	.....	.....	.....	.....	2,110	470	378	650	315	2,710	395	2,410
2	.....	.....	.....	.....	2,410	470	532	625	315	2,010	470	2,010
3	.....	.....	.....	.....	1,740	450	630	600	275	1,830	470	1,740
4	.....	.....	.....	.....	1,470	395	770	532	900	1,120	555	1,380
5	.....	.....	.....	.....	1,200	360	710	470	830	970	510	1,010
6	.....	.....	.....	.....	1,040	360	680	510	680	970	450	970
7	.....	.....	.....	.....	865	360	578	470	470	900	430	900
8	.....	.....	.....	.....	770	360	532	532	510	900	430	1,470
9	.....	.....	.....	.....	865	315	450	600	532	830	450	.....
10	.....	.....	.....	.....	1,040	300	360	740	510	740	510	.....
11	.....	.....	.....	.....	1,120	300	300	2,410	470	710	470	2,710
12	.....	.....	.....	.....	1,040	395	275	2,010	578	625	555	2,410
13	.....	.....	.....	.....	800	532	238	1,120	532	555	600	.....
14	.....	.....	.....	.....	710	450	412	830	490	510	532	.....
15	.....	.....	.....	.....	900	345	830	555	450	450	490	.....
16	.....	.....	.....	.....	1,120	288	740	510	345	430	470	.....
17	.....	.....	.....	.....	1,040	262	578	450	345	395	450	.....
18	.....	.....	.....	.....	865	250	770	395	315	430	510	2,510
19	.....	.....	.....	.....	770	226	680	360	345	430	555	1,920
20	.....	.....	.....	.....	625	250	532	315	650	412	555	1,560
21	.....	.....	.....	.....	555	226	450	345	1,040	395	710	1,380
22	.....	.....	.....	1,650	510	250	412	395	1,380	395	1,200	2,710
23	.....	.....	.....	.....	450	250	345	532	1,740	395	2,110	.....
24	.....	.....	.....	.....	470	275	330	430	1,650	395	2,710	.....
25	.....	.....	.....	2,310	470	300	430	1,040	800	395	2,110	.....
26	.....	.....	.....	1,920	510	360	470	1,740	740	395	1,740	.....
27	.....	.....	.....	1,560	555	360	2,110	1,380	770	395	1,200	2,710
28	.....	.....	.....	1,200	555	360	1,740	1,200	.....	510	.....	.....
29	.....	.....	.....	1,650	510	360	1,380	830	.....	470	.....	.....
30	.....	.....	.....	2,110	470	330	1,040	555	.....	450	.....	.....
31	.....	.....	.....	.....	470	.....	740	345	.....	430	.....	.....

Daily discharge, in second feet, of Choctawhatchee River near Newton, Ala. Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1908												
1	.....	.....	1,740	2,110	.....	800	375	490	.....	.....	.....	.....
2	.....	.....	1,560	1,920	.....	770	375	740	.....	.....	.....	.....
3	.....	.....	1,380	1,830	2,310	770	375	625	.....	.....	.....	.....
4	.....	.....	1,380	1,740	2,110	770	375	600	.....	.....	.....	.....
5	2,610	.....	1,380	1,560	1,920	710	770	470	.....	.....	.....	.....
6	.....	2,710	1,290	1,470	2,510	710	650	395	.....	.....	.....	.....
7	.....	2,310	1,290	1,920	2,710	650	490	395	.....	.....	.....	.....
8	.....	1,920	1,200	1,830	2,510	625	178	360	.....	.....	.....	.....
9	.....	2,310	1,200	1,560	2,310	830	680	740	.....	.....	.....	.....
10	.....	.....	1,120	1,380	2,110	770	680	625	.....	.....	.....	.....
11	.....	.....	1,040	1,290	1,740	710	830	600	.....	.....	.....	.....
12	.....	2,510	1,040	1,200	1,560	650	935	470	.....	.....	.....	.....
13	.....	2,710	1,650	1,040	1,290	650	865	395	.....	.....	.....	.....
14	.....	.....	1,380	1,040	1,040	600	865	395	.....	.....	.....	.....
15	.....	.....	1,200	1,920	1,040	600	865	360	.....	.....	.....	.....
16	2,710	.....	1,040	1,830	970	555	710	345	.....	.....	.....	.....
17	2,510	2,410	1,040	1,560	970	625	578	300	.....	.....	.....	.....
18	2,310	2,110	970	1,380	900	600	510	275	.....	.....	.....	.....
19	2,110	.....	970	1,380	900	532	532	345	.....	.....	.....	.....
20	1,920	.....	1,040	1,290	830	490	740	830	.....	.....	.....	.....
21	1,740	.....	1,040	1,200	830	470	740	680	.....	.....	.....	.....
22	1,740	.....	1,920	.....	770	600	1,000	830	.....	.....	.....	.....
23	1,650	2,210	.....	.....	770	555	1,080	.....	.....	.....	.....	.....
24	1,560	1,830	.....	2,710	710	555	1,080	.....	.....	.....	.....	.....
25	1,920	1,740	.....	.....	650	510	2,710	.....	.....	.....	.....	.....
26	1,740	2,510	.....	.....	600	480	1,560	.....	.....	.....	.....	.....
27	1,560	2,110	.....	.....	680	480	1,200	.....	.....	.....	.....	.....
28	1,560	1,920	.....	.....	1,380	395	865	.....	.....	.....	.....	.....
29	1,380	1,740	.....	.....	1,040	378	650	.....	.....	.....	.....	.....
30	1,470	.....	2,510	.....	865	360	600	.....	.....	.....	.....	.....
31	2,510	.....	2,210	.....	830	.....	555	.....	.....	.....	.....	.....

Note.—Daily discharge for 1906, 1907, and 1908 based on a well-defined rating curve. Discharge for missing days April 22, 1907, to August 22, 1908, greater than 2,800 second-feet. Discharge estimated August 5 to 11, 1906, and July 1-4, 1908.

CHOCTAWHATCHEE RIVER AT GENEVA, ALA.

Location.—At iron wagon bridge in the outskirts of Geneva, Ala., about three-fourths of a mile above the mouth of Double Bridges Creek.

Records available.—August 26 to December 31, 1904.

Drainage area.—Not determined.

Gage.—Vertical staff gage.

Channel.—Both banks overflow at high stages, channel good for measurements.

Discharge measurements.—Made from the wagon bridge

Artificial control.—None.

Accuracy.—The station was intended as a temporary one for low water rating, as it was known that back water from Pea River and Double Bridges Creek would seriously affect the accuracy.

Discharge measurements of Choctawhatchee River near Geneva, Ala.

Date.	Gage height. Feet.	Discharge. Sec.-ft.	Date.	Gage height. Feet.	Discharge. Sec.-ft.
1904			1904		
May 27	2.07	642	November 18	1.81	643
June 21	1.63	464	November 18	1.81	635
August 26	4.18	1,078	1905		
September 26	1.38	488	March 29	6.05	2,228
September 26	1.36	461	June 14	5.50	1,416

Mean daily gage height, in feet, of Choctawhatchee River near Geneva, Ala., for 1904.

Day.	Aug.	Sept.	Oct.	Nov.	Dec.	Day.	Aug.	Sept.	Oct.	Nov.	Dec.
1		3.50	1.40	1.25	1.85	17		1.70	1.15	1.85	2.70
2		3.30	1.50	1.40	2.40	18		1.70	1.20	1.90	2.90
3		2.85	1.30	2.05	6.10	19		1.65	1.30	1.75	2.80
4		2.45	1.25	2.40	5.50	20		1.65	1.25	1.80	2.70
5		2.50	1.30	2.10	4.95	21		1.60	1.25	1.70	2.70
6		2.75	1.30	1.80	6.65	22		1.50	1.30	1.85	2.60
7		2.80	1.45	1.75	5.75	23		1.50	1.25	2.40	2.60
8		3.20	1.55	1.70	4.45	24		1.60	1.10	2.30	2.50
9		2.90	1.45	1.75	3.85	25		1.55	1.10	2.10	2.50
10		2.60	1.30	1.60	3.50	26	4.20	1.40	1.25	2.00	2.55
11		2.45	1.30	1.65	3.40	27	4.30	1.45	1.30	1.90	4.40
12		2.10	1.30	1.50	3.20	28	5.80	1.50	1.30	1.75	6.90
13		2.00	1.35	1.95	2.90	29	6.20	1.45	1.30	1.80	5.50
14		1.90	1.30	2.20	2.85	30	4.50	1.45	1.30	1.80	5.40
15		1.80	1.25	1.95	2.80	31	3.90		1.25		5.45
16		1.80	1.25	1.90	2.50						

PEA RIVER AT PERA, ALA.

Location.—At the Elton wagon bridge half a mile west of Pera, Ala., about 10 miles above the mouth of Flat Creek. No tributary streams except very small ones come in nearer the station.

Records available.—August 27, 1904, to August 31, 1913.

Drainage area.—1,180 square miles.

Gage.—Standard chain gage attached to the bridge; datum unchanged.

Channel.—In soft rock; nearly permanent.

Discharge measurements.—Made from the downstream side of the wagon bridge to which the gage is attached.

Artificial control.—Power plants on Whitewater Creek, a tributary stream above the station, cause diurnal fluctuations in the low-

water flow. The gage is read twice a day to lesson the effect of such fluctuations.

Accuracy.—The estimates of daily discharge may be considerably in error for individual days due to the operation of the power plants above the station.

Discharge measurements of Pea River at Pera, Ala.

Date.	Gage height. Feet.	Discharge. Sec.-ft.	Date.	Gage height. Feet.	Discharge. Second-
1904			1907		
May 26	2.47	285	April 23	18.54	6,660
June 22	1.80	194	April 23	18.57	6,700
August 27	4.66	790	November 25	14.70	4,920
September 27	1.59	190			
September 27	1.60	189	1908		
November 17	2.32	307	June 18	4.58	654
November 17	2.34	308			
1905			1909		
March 28	6.81	1,468	August 5	4.86	708
March 28	6.84	1,473	December 2	2.85	372
March 30	6.13	1,213	December 2	2.85	376
March 30	6.14	1,225	December 2	2.98	398
June 15	3.99	579			
June 15	4.00	604			
October 18	4.07	638	1910		
			December 15	3.56	486
1906			December 15	3.55	490
February 22	8.01	1,810			
June 7	3.52	474			
September 14	3.38	480	1911		
September 14	3.42	488	October 19	3.00	388
September 14	3.38	465	October 19	3.08	400

No discharge measurements in 1912.

Mean daily gage height, in feet, of Pea River at Pera, Ala., for 1904.

Day.	Aug.	Sept.	Oct.	Nov.	Dec.	Day.	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	5.3	1.6	1.3	2.2	17	.....	2.3	1.3	2.2	3.3
2	.....	4.5	1.4	1.4	3.2	18	.....	2.1	1.3	2.2	3.4
3	.....	3.9	1.4	2.0	5.3	19	.....	1.9	1.4	2.1	3.5
4	.....	3.3	1.4	2.2	4.4	20	.....	1.5	1.4	2.2	3.4
5	.....	3.5	1.4	2.1	6.1	21	.....	1.6	1.4	2.1	3.3
6	.....	3.6	1.4	2.2	7.6	22	.....	1.8	1.4	2.3	3.3
7	.....	4.6	2.1	2.1	6.1	23	.....	1.5	1.3	2.6	3.2
8	.....	4.8	1.7	2.0	5.4	24	.....	1.4	1.2	2.4	3.1
9	.....	3.7	1.6	2.0	5.0	25	.....	1.6	1.2	2.4	3.0
10	.....	3.4	1.5	1.9	4.5	26	.....	1.5	1.3	2.4	3.2
11	.....	3.0	1.6	2.0	4.2	27	4.7	1.6	1.4	2.3	4.9
12	.....	2.8	1.5	1.8	4.0	28	6.9	1.6	1.3	2.3	7.6
13	.....	2.6	1.5	2.2	3.7	29	7.5	1.6	1.4	2.3	8.0
14	.....	2.4	1.5	2.3	3.6	30	7.1	1.6	1.4	2.2	7.0
15	.....	2.2	1.4	2.4	3.4	31	6.2	.....	1.4	.....	6.5
16	.....	2.3	1.5	2.3	3.3						

Daily gage height, in feet, of Pea River at Pera, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1905												
1	5.6	5.0	8.1	5.7	4.6	5.4	5.9	5.2	3.0	5.3	3.1	3.2
2	5.2	4.9	7.6	5.6	4.9	5.9	5.0	10.9	2.9	4.6	3.0	3.3
3	4.7	4.8	7.5	5.4	4.4	5.8	4.6	8.4	2.6	4.6	3.0	7.4
4	4.4	4.6	7.3	5.2	4.7	5.0	4.3	7.1	5.8	4.0	2.9	12.0
5	4.1	4.7	7.1	5.8	4.7	4.7	3.9	6.7	5.6	3.7	2.7	8.7
6	4.1	6.1	6.9	9.6	4.6	4.4	3.9	5.6	3.5	3.4	2.7	8.6
7	6.0	7.0	6.7	8.0	4.3	3.8	3.2	4.2	3.1	3.5	3.4	7.7
8	4.9	9.4	6.7	7.4	4.1	3.3	2.9	3.5	2.8	3.0	3.3	6.6
9	4.6	14.7	6.6	6.6	4.3	3.2	2.8	4.1	2.6	2.9	3.0	8.5
10	4.3	15.2	9.2	6.0	4.4	3.0	3.0	4.0	2.5	3.7	3.1	8.7
11	4.1	12.1	9.0	6.0	4.3	2.7	5.3	6.3	2.4	7.1	4.4	8.6
12	4.0	16.2	9.3	8.6	4.0	2.6	5.0	7.5	2.4	6.1	4.5	8.6
13	9.0	22.5	10.1	14.2	3.9	2.5	4.2	8.7	5.1	4.9	4.4	7.8
14	11.7	26.0	9.5	15.2	3.5	2.8	3.4	7.6	4.8	4.7	4.4	8.5
15	8.8	27.1	8.7	14.1	3.7	3.9	3.0	6.8	3.5	3.9	4.1	10.1
16	7.6	29.4	7.7	11.5	3.7	3.4	2.8	6.1	3.5	4.9	3.9	9.4
17	6.9	28.8	7.4	9.2	13.3	3.0	2.8	6.6	2.9	4.5	3.8	8.4
18	6.3	24.0	7.2	7.8	10.3	3.0	3.0	7.4	2.8	4.0	3.6	7.6
19	6.0	18.8	7.1	7.0	8.2	3.9	3.0	7.4	2.7	3.7	3.2	6.8
20	5.9	13.9	6.8	6.4	7.0	3.7	2.6	7.0	2.8	3.4	3.1	9.1
21	5.6	12.5	10.8	6.0	6.1	5.7	2.4	6.7	2.4	3.3	3.1	18.8
22	5.1	12.0	9.6	5.8	5.3	4.5	2.2	5.0	2.3	3.1	3.1	19.8
23	4.9	11.0	8.7	5.5	4.9	3.4	2.1	4.4	2.3	3.0	3.0	18.8
24	5.0	10.3	8.3	5.5	4.3	3.2	2.1	3.8	2.1	2.8	3.0	20.7
25	8.5	9.7	8.6	5.4	5.9	3.1	2.6	3.6	2.1	2.7	3.0	22.4
26	6.6	9.4	7.9	5.5	5.7	2.9	2.9	5.4	2.0	3.0	3.7	22.8
27	5.9	8.8	7.4	5.5	6.2	2.7	3.3	6.1	2.1	3.3	3.7	16.6
28	5.4	8.5	6.8	5.0	5.9	2.7	2.6	5.1	2.0	3.4	3.7	13.7
29	5.2	.....	6.4	4.7	5.3	3.7	3.4	4.0	2.3	3.3	3.5	13.5
30	5.2	.....	6.1	4.5	4.7	6.2	4.2	3.5	2.8	3.3	3.4	12.2
31	5.1	.....	5.9	.....	5.1	.....	4.3	3.3	.....	3.2	.....	10.7
1906												
1	10.1	9.1	7.3	7.7	3.9	4.5	3.9	4.5	3.2	17.4	4.0	5.1
2	9.4	8.7	7.0	8.0	3.7	4.3	5.0	4.2	3.5	15.1	4.0	5.1
3	9.4	8.4	14.0	8.5	3.6	4.6	5.3	4.0	3.6	12.9	3.9	4.9
4	15.3	7.9	16.0	7.8	4.3	4.2	4.0	3.9	3.3	13.5	3.8	4.9
5	14.8	7.6	15.1	7.1	7.0	3.8	5.4	3.7	3.1	10.1	3.8	4.8
6	12.0	7.5	13.1	6.6	10.4	3.6	4.4	4.2	3.1	10.1	3.7	4.8
7	11.1	7.3	11.9	6.2	7.2	3.4	3.8	4.5	3.8	11.2	3.7	4.8
8	10.8	8.5	15.1	6.0	14.2	3.3	3.4	4.4	3.8	9.2	3.7	4.6
9	11.3	12.3	17.8	5.8	12.8	3.3	3.3	4.1	4.7	8.0	3.6	4.5
10	10.9	11.6	15.4	5.8	9.5	4.2	5.0	3.5	5.4	7.1	3.7	4.5
11	9.4	10.5	13.3	5.9	8.4	4.3	10.0	3.4	4.4	6.4	3.6	5.7
12	10.0	9.7	12.4	5.7	7.7	4.2	8.8	7.9	4.1	6.0	3.8	5.9
13	10.7	9.2	12.3	5.7	7.1	4.8	10.2	9.1	3.6	5.6	3.6	5.2
14	9.7	9.4	11.4	5.9	6.1	4.5	12.6	7.2	3.4	5.3	3.6	5.0
15	9.2	9.7	11.0	7.5	5.7	6.9	14.1	8.9	3.3	5.0	3.7	4.8
16	8.8	9.1	10.7	7.4	5.0	6.0	15.0	7.5	3.1	4.7	5.2	4.6
17	8.4	8.3	9.3	6.6	4.8	5.2	15.6	7.1	2.8	4.6	4.8	4.8
18	8.0	7.8	8.6	6.2	4.8	8.7	14.3	5.4	2.8	4.4	8.4	6.9
19	7.9	7.4	8.2	5.7	4.6	6.2	11.2	4.7	2.7	4.8	12.2	6.6
20	7.8	7.4	10.0	5.5	4.4	5.8	9.8	4.3	2.6	4.9	11.0	7.6
21	7.5	7.5	9.8	5.4	4.3	5.4	10.5	4.1	3.0	4.9	10.4	7.8
22	9.5	8.2	9.0	5.1	3.8	4.2	9.3	4.0	3.3	5.0	9.3	6.8
23	16.7	7.7	8.4	4.9	5.0	3.7	7.0	3.8	3.3	5.6	8.4	6.4
24	17.0	7.3	8.4	4.7	4.5	3.5	6.5	3.8	3.1	5.6	8.0	6.0
25	17.5	7.6	9.2	4.4	5.4	3.4	6.4	3.6	3.3	5.3	7.6	5.8
26	19.5	7.7	8.8	4.1	7.6	3.3	5.7	3.5	3.1	5.0	7.3	5.4
27	18.8	7.2	8.3	3.9	7.3	3.3	7.4	3.2	4.5	4.6	6.9	5.4
28	14.6	7.0	7.7	4.1	7.0	3.0	6.0	3.1	13.9	4.4	6.2	5.2
29	11.6	.....	7.2	4.0	6.4	3.6	5.4	3.4	20.7	4.3	5.6	5.2
30	10.3	.....	7.9	4.0	5.5	3.1	5.6	3.1	19.2	4.2	5.3	5.1
31	9.5	.....	7.9	.....	4.9	.....	5.4	3.0	.....	4.1	.....	12.8

Daily gage height, in feet, of Pea River at Pera, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1907.												
1	17.3	7.8	9.4	4.9	10.2	5.2	3.8	7.8	3.6	10.8	4.1	14.8
2	14.9	7.5	13.4	5.2	10.0	5.2	4.8	6.6	3.35	8.8	4.2	13.8
3	12.6	7.0	13.2	5.1	10.0	5.0	6.0	5.6	3.45	7.8	5.6	13.0
4	11.9	6.8	13.0	5.1	10.5	4.7	6.6	7.0	3.9	6.8	4.6	12.4
5	12.3	13.5	11.0	5.0	9.2	4.5	6.2	7.0	10.4	6.2	4.0	10.8
6	11.1	12.9	11.4	17.1	7.8	4.4	5.7	7.1	6.6	7.6	4.2	9.4
7	10.0	10.7	11.5	16.2	7.0	4.2	5.3	7.0	5.6	6.6	3.95	8.5
8	8.4	9.7	9.9	10.3	7.8	4.0	4.8	6.0	4.6	6.2	3.8	8.0
9	7.8	9.1	8.4	9.6	10.4	4.0	4.4	6.4	9.0	7.6	3.9	10.0
10	7.1	8.9	7.7	9.6	9.8	3.8	4.0	8.8	8.0	6.3	3.95	15.9
11	7.0	8.5	7.2	9.3	9.2	3.8	3.5	10.7	6.4	5.5	4.2	15.8
12	6.7	7.9	6.7	9.0	8.4	3.8	3.75	11.4	5.6	5.2	4.5	12.6
13	6.4	7.4	6.5	8.3	7.8	3.8	4.1	10.0	5.0	4.8	4.8	13.3
14	6.3	6.5	6.4	8.0	7.4	4.0	4.6	12.3	4.8	4.6	4.6	18.7
15	6.1	6.2	6.4	8.5	14.6	3.9	5.8	7.2	4.4	4.4	4.5	13.8
16	6.0	6.1	9.2	5.2	16.8	3.55	8.8	5.8	4.5	4.4	4.4	18.2
17	5.9	6.0	8.6	5.2	11.2	3.35	7.5	5.2	4.2	4.2	4.3	16.0
18	5.9	5.8	8.8	6.2	9.2	3.5	6.6	4.6	3.85	4.2	4.6	15.1
19	5.9	5.6	8.8	6.5	7.7	3.6	5.6	4.2	3.75	4.2	5.0	14.0
20	5.9	7.2	9.8	12.2	7.0	3.4	5.3	4.2	3.65	4.1	4.8	12.1
21	6.7	7.0	8.7	11.5	6.6	3.2	4.4	4.4	3.85	3.95	7.0	11.1
22	6.4	6.8	8.3	10.2	6.0	3.2	4.0	4.4	6.0	4.0	11.3	11.4
23	5.9	5.9	6.5	16.4	5.5	3.25	4.1	4.2	10.2	4.0	16.2	20.3
24	5.7	5.8	6.5	17.4	5.5	3.2	3.95	4.1	7.8	4.3	14.9	22.2
25	5.4	5.8	5.8	15.0	6.2	3.6	3.5	9.3	5.8	4.1	12.6	21.0
26	6.8	7.5	5.6	12.9	6.1	5.1	3.4	9.6	6.8	4.1	11.2	19.6
27	8.3	8.9	5.5	11.8	5.6	4.8	3.55	6.1	5.9	4.0	11.2	19.2
28	7.3	8.0	5.3	10.9	6.4	4.6	5.0	5.3	6.2	4.2	14.6	18.4
29	6.8	.....	5.3	9.7	6.0	4.2	8.6	4.5	17.2	3.9	16.0	20.8
30	6.5	.....	5.0	9.8	5.4	4.3	8.5	4.0	15.7	3.7	17.3	22.3
31	6.8	.....	4.8	.....	5.3	.....	7.6	3.85	.....	3.85	.....	22.4
1908.												
1	22.8	21.0	10.4	12.6	23.4	7.5	4.0	4.9	4.0	4.2	4.6	3.85
2	22.8	26.0	10.1	11.6	21.8	6.6	4.2	5.1	3.8	3.85	4.4	4.0
3	22.4	24.5	9.8	10.6	19.0	5.9	4.8	5.2	3.55	3.6	4.4	4.1
4	20.2	24.5	9.4	10.0	15.0	5.6	4.6	4.8	4.3	3.85	5.2	4.2
5	16.6	26.0	9.2	9.6	12.2	6.6	6.6	4.4	5.1	3.15	6.8	4.2
6	15.3	22.9	9.0	9.3	14.2	6.0	7.1	4.4	6.9	3.15	6.4	3.9
7	19.1	18.0	8.8	9.4	15.0	6.6	6.1	4.4	7.4	3.05	6.0	3.85
8	22.6	14.0	8.6	10.0	14.2	6.0	5.3	4.4	5.4	2.95	4.9	4.0
9	21.7	12.5	8.4	9.8	13.8	5.4	4.8	5.2	5.2	4.9	4.5	3.9
10	20.1	13.4	8.2	9.6	12.6	5.1	7.8	5.3	4.9	6.0	4.3	3.85
11	20.3	15.6	8.2	9.1	11.8	5.0	6.7	4.6	4.5	4.9	4.0	3.85
12	20.4	14.4	8.1	8.6	10.2	5.8	5.0	4.1	4.2	4.4	4.2	4.0
13	19.0	13.3	8.0	8.2	9.8	5.9	5.4	4.0	3.95	4.0	4.2	4.8
14	17.0	12.8	7.8	8.0	8.8	5.2	5.8	3.75	3.75	3.75	4.0	6.2
15	15.0	14.6	7.7	8.0	8.2	5.0	5.2	3.55	3.55	3.6	4.1	5.4
16	14.2	15.6	7.6	12.6	7.8	4.8	4.9	3.45	3.35	3.35	4.0	5.0
17	13.7	14.1	7.0	12.6	7.4	4.6	4.4	3.35	3.2	3.35	4.2	4.7
18	12.8	13.2	6.4	10.4	7.2	4.5	4.0	3.3	3.1	3.25	4.0	4.4
19	11.7	17.4	6.2	9.5	7.3	4.6	4.0	3.05	3.05	3.1	3.95	4.3
20	11.1	18.6	7.2	9.0	7.3	5.0	3.95	3.1	3.75	3.15	3.95	4.2
21	10.6	16.8	8.2	8.8	7.2	5.0	6.2	3.25	5.4	3.1	4.0	4.1
22	10.8	15.0	8.1	9.8	7.2	4.9	5.2	3.6	7.3	3.05	3.9	5.0
23	10.9	13.8	14.0	15.5	6.8	4.8	5.0	5.7	6.4	3.0	3.85	6.0
24	10.5	13.2	23.8	14.3	6.5	4.6	5.4	6.4	5.2	3.0	4.0	5.6
25	10.0	12.2	26.6	13.2	6.2	6.3	8.4	6.9	4.8	3.0	4.0	5.2
26	9.8	13.7	27.8	20.0	6.0	6.4	8.0	7.4	4.7	3.05	4.0	5.0
27	10.2	13.0	29.8	25.4	6.6	5.0	7.2	6.9	4.2	3.15	4.0	4.6
28	9.4	11.6	30.5	29.8	6.6	4.4	6.2	6.6	3.95	4.0	3.55	4.5
29	9.4	11.0	25.9	27.4	7.0	4.4	5.6	5.9	4.0	5.7	3.8	4.2
30	9.0	.....	19.9	25.8	8.2	4.2	5.6	5.1	4.2	5.4	3.8	4.2
31	9.6	.....	14.9	.....	8.6	.....	5.6	4.4	.....	5.0	.....	4.7

Daily gage height, in feet, of Pea River at Pera, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1909												
1	4.6	3.4	7.1	7.2	12.0	9.8	5.5	4.1	2.6	3.2	2.4	2.75
2	4.6	3.3	6.9	6.4	14.6	9.2	5.9	4.3	2.85	3.0	2.5	2.9
3	4.3	3.35	7.2	6.2	12.0	9.4	6.3	4.5	3.1	2.9	2.65	3.25
4	4.2	3.4	6.6	5.8	11.0	13.4	7.0	4.5	2.7	2.65	2.6	3.1
5	4.2	3.35	6.2	5.8	10.0	14.0	6.6	4.3	2.8	2.7	2.45	3.05
6	4.2	4.4	5.9	5.6	9.3	14.6	5.4	4.4	3.1	2.55	2.35	3.0
7	4.1	4.8	7.5	5.6	8.2	14.8	5.1	4.5	3.2	2.6	2.4	3.7
8	3.9	4.5	11.6	6.6	7.2	14.8	4.9	5.4	2.95	2.45	2.3	4.5
9	3.9	4.6	9.9	7.8	6.6	11.2	4.8	6.2	2.9	2.5	2.35	4.2
10	3.8	9.8	12.6	7.9	6.0	8.8	4.7	6.7	2.95	2.5	2.3	4.1
11	3.8	13.4	10.8	7.4	5.6	7.6	5.0	7.0	3.0	2.45	2.4	4.1
12	3.9	11.0	9.6	7.0	5.2	6.7	5.1	6.5	2.75	2.8	2.3	4.0
13	4.1	13.6	9.4	6.8	5.0	7.2	5.4	5.8	2.5	2.4	2.35	7.0
14	4.1	18.4	9.7	9.2	4.8	6.9	9.2	5.6	2.8	2.4	2.3	6.8
15	4.0	20.2	11.7	8.2	4.6	7.4	10.7	5.2	2.8	2.35	2.25	6.0
16	4.0	21.1	12.2	7.2	4.0	9.2	9.2	4.6	2.95	2.3	2.25	5.9
17	4.4	19.0	12.0	6.4	6.0	8.8	8.2	4.5	3.6	2.3	2.45	5.1
18	4.2	18.6	12.6	6.2	5.6	9.0	6.6	4.4	4.1	2.2	2.3	4.8
19	4.1	15.4	11.6	5.8	6.4	13.2	7.1	5.0	3.75	2.25	2.35	4.7
20	3.9	17.4	10.0	5.4	7.6	12.0	6.8	4.3	3.75	2.3	2.3	5.4
21	3.8	15.7	9.8	5.0	7.8	12.2	6.3	4.1	4.0	2.7	2.5	5.4
22	3.8	13.6	12.5	4.8	8.0	13.0	5.3	3.75	7.4	2.7	2.5	5.2
23	3.85	12.8	16.8	4.7	7.4	11.0	4.9	3.35	7.3	2.55	2.75	4.6
24	3.75	11.8	20.4	4.8	6.7	9.0	5.6	3.2	6.6	2.55	2.7	4.8
25	3.7	10.6	20.7	5.3	7.0	8.0	5.6	3.1	7.1	2.4	2.7	4.7
26	3.6	9.2	15.7	8.0	9.9	7.0	4.8	2.9	5.4	2.5	2.7	5.2
27	3.65	8.1	10.4	12.4	8.6	7.4	4.3	2.8	5.1	2.4	2.8	5.0
28	3.6	7.6	9.0	15.4	8.0	7.1	4.1	2.8	4.8	2.35	2.7	4.8
29	3.55	.....	8.4	14.8	9.2	6.0	4.1	2.7	4.8	2.35	2.55	4.5
30	3.7	.....	7.6	13.1	9.6	6.0	4.3	2.6	3.55	2.4	2.7	4.3
31	3.4	.....	7.1	.....	9.2	.....	4.3	2.55	.....	2.25	.....	4.1
1910												
1	4.0	8.9	20.8	5.3	4.7	2.75	5.7	5.4	3.55	2.4	2.4	4.3
2	3.9	8.2	22.3	5.3	4.5	2.7	5.2	5.2	3.4	2.25	2.55	4.1
3	3.85	7.6	22.5	5.0	4.4	2.65	7.2	4.8	3.15	2.15	2.45	3.65
4	3.85	7.6	21.9	4.9	4.2	2.65	9.0	5.1	4.9	2.25	2.45	3.5
5	3.8	7.0	20.8	5.2	4.2	2.85	13.0	6.9	4.2	2.3	2.5	3.35
6	3.95	6.0	17.0	5.4	3.9	3.35	10.2	5.3	3.7	2.45	3.25	3.8
7	7.0	5.5	13.0	5.3	4.1	3.75	8.8	5.8	3.4	3.0	3.8	4.6
8	6.4	5.2	10.9	5.0	3.55	3.75	7.9	5.2	3.4	3.1	3.8	4.8
9	6.0	5.2	9.9	5.0	3.8	3.55	8.3	4.7	3.6	3.2	3.35	4.3
10	5.3	5.0	9.1	4.6	4.6	4.4	8.0	4.2	3.85	3.7	3.0	4.2
11	4.8	5.4	8.8	4.4	4.7	5.6	6.4	3.8	3.8	3.75	2.9	4.0
12	4.7	8.8	10.6	4.4	4.6	6.6	7.8	3.95	4.2	3.05	2.85	3.85
13	4.4	7.6	9.8	5.4	4.3	6.5	5.8	4.2	3.5	2.75	2.7	3.8
14	4.2	7.0	8.8	6.1	4.0	6.1	5.0	5.8	3.25	2.7	2.7	3.7
15	4.2	6.6	8.3	6.4	3.65	5.8	4.4	4.8	3.55	2.55	2.75	3.5
16	4.0	6.2	7.8	6.5	3.45	5.4	4.2	4.0	2.85	2.45	2.65	3.55
17	3.9	6.2	7.3	10.0	3.35	5.5	4.5	3.75	2.8	2.2	2.55	3.5
18	3.85	13.2	7.2	14.2	3.3	5.8	6.2	3.55	3.65	2.3	2.65	4.5
19	3.9	14.5	7.0	15.2	3.15	4.2	6.0	3.25	2.85	2.2	3.35	5.4
20	4.0	11.0	6.7	10.4	3.2	5.0	6.1	3.2	3.05	2.2	4.1	5.2
21	4.6	9.8	6.5	17.0	3.2	4.2	6.0	5.6	2.75	2.2	4.4	4.8
22	5.4	11.6	6.4	12.5	3.35	4.4	5.4	5.9	2.6	2.15	4.2	4.4
23	4.9	11.3	6.3	8.6	3.5	5.4	5.4	4.6	2.55	2.05	3.9	4.2
24	4.6	13.8	6.2	7.4	3.8	5.0	10.8	3.75	2.5	2.0	3.55	5.0
25	4.5	17.5	6.2	6.4	3.9	4.6	16.0	3.5	2.35	2.1	3.4	5.1
26	4.4	14.8	6.2	5.8	3.85	4.4	17.6	3.45	2.25	2.15	3.4	4.8
27	4.3	12.0	6.2	5.6	3.55	4.2	13.6	3.4	2.3	2.05	3.15	4.6
28	5.1	15.6	5.8	5.3	3.3	3.85	9.8	3.15	2.4	2.8	3.55	4.2
29	10.1	.....	5.6	5.2	3.25	3.85	8.0	2.9	2.3	2.6	4.7	4.2
30	9.6	.....	5.6	5.0	3.05	4.2	7.6	2.8	2.55	2.95	5.2	4.4
31	10.4	.....	5.4	.....	2.8	.....	5.6	3.05	.....	2.7	.....	5.8

Daily gage height, in feet, of Pea River at Pera, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1911												
1	6.0	4.5	4.2	5.0	5.0	2.8	2.8	1.9	2.1	1.7	2.5	4.6
2	5.4	4.4	4.2	4.5	7.0	2.85	2.5	2.5	2.2	1.6	2.4	4.2
3	10.4	4.3	3.95	4.1	7.2	2.55	3.8	3.3	2.2	1.5	2.2	3.8
4	15.0	4.4	4.0	3.9	6.6	2.35	4.1	4.2	1.8	1.6	2.2	3.6
5	12.6	5.0	3.8	5.2	6.0	2.25	3.1	4.2	1.7	1.6	2.1	3.6
6	11.4	4.6	3.75	8.0	5.6	2.1	2.7	3.8	2.0	1.6	2.05	3.4
7	10.4	4.4	3.7	6.6	5.1	2.4	2.4	2.9	2.1	1.6	2.9	3.2
8	9.2	4.3	3.75	5.8	4.7	2.95	2.3	2.8	2.5	1.5	3.4	3.1
9	8.2	4.2	3.6	6.3	4.2	2.9	2.3	2.6	2.8	1.6	3.4	3.0
10	7.9	4.2	3.6	8.8	3.7	2.55	3.0	2.4	2.6	1.5	3.2	3.0
11	7.5	4.2	3.6	7.4	3.45	2.35	3.0	2.4	2.6	1.9	3.2	2.8
12	6.7	4.4	3.5	12.8	3.3	2.1	2.8	2.6	2.8	2.8	2.9	3.0
13	6.2	5.6	3.55	13.0	3.1	2.15	3.3	3.7	2.4	3.1	2.7	2.8
14	5.8	6.0	3.5	10.3	3.15	2.2	2.8	3.8	2.1	2.6	2.8	3.0
15	5.6	5.8	3.45	8.3	2.9	1.95	2.8	4.0	2.0	2.2	2.6	2.9
16	5.4	5.4	4.2	7.3	2.75	2.8	2.5	3.6	2.0	2.0	2.6	3.0
17	5.2	5.2	3.85	6.6	2.65	2.85	3.9	3.5	2.0	2.1	2.5	3.0
18	5.2	5.1	3.7	5.9	2.95	2.3	5.0	3.5	2.1	3.3	2.6	2.8
19	5.0	4.9	3.45	5.5	2.95	1.85	4.5	4.4	2.2	3.1	2.7	3.0
20	4.9	6.0	3.35	9.4	3.0	2.7	4.8	5.6	2.1	2.8	2.6	3.8
21	5.0	8.8	3.5	9.0	3.2	2.8	4.4	4.3	2.0	2.4	2.8	6.7
22	4.8	6.8	3.65	7.4	3.2	2.85	4.2	4.1	2.0	3.3	2.6	8.4
23	4.8	5.6	4.0	6.3	3.05	2.6	3.7	3.6	1.9	4.1	2.4	21.8
24	4.8	5.2	4.3	5.6	3.15	3.15	3.6	3.0	1.9	3.6	2.4	20.6
25	4.6	5.0	4.4	5.2	3.75	2.65	3.1	2.8	1.8	3.2	2.6	15.5
26	4.6	4.7	5.0	4.7	3.4	2.65	3.0	2.6	1.8	2.8	2.4	12.9
27	4.7	4.4	11.9	4.5	2.95	2.3	2.7	2.4	1.9	2.6	2.4	11.4
28	4.8	4.2	10.6	5.0	2.75	3.0	2.3	2.0	1.8	2.5	4.6	10.4
29	4.8	.....	8.0	5.2	2.6	3.15	2.2	2.0	1.8	2.6	6.4	8.9
30	4.6	.....	6.4	4.8	2.4	2.7	2.1	2.3	1.7	2.4	5.4	8.4
31	4.6	.....	5.6	.....	2.3	.....	1.9	2.2	.....	2.5	.....	14.0
1912												
1	20.0	15.0	14.4	12.0	12.8	4.8	5.2	3.4	4.0	8.7	5.8	6.6
2	15.9	15.2	12.2	11.2	13.8	5.4	5.8	4.6	3.7	9.0	5.6	6.6
3	14.6	16.4	10.7	11.2	14.0	10.6	5.8	5.7	3.6	7.8	5.7	6.4
4	16.1	13.8	10.4	10.6	13.8	7.1	6.7	6.1	3.4	7.4	5.4	6.8
5	14.2	10.4	14.4	9.5	12.4	6.2	7.2	7.0	3.4	7.2	5.2	14.5
6	12.0	9.3	13.6	8.8	11.8	5.6	6.6	5.9	3.5	6.0	6.0	13.9
7	12.2	8.6	12.2	8.4	12.4	7.2	6.0	5.2	3.4	5.6	19.2	12.0
8	16.2	8.0	11.1	8.0	13.4	9.3	5.6	5.6	3.3	5.2	23.6	11.7
9	24.0	7.8	10.8	7.8	11.4	8.2	6.4	5.8	3.0	4.8	21.6	10.3
10	22.7	7.6	12.2	7.6	10.2	7.2	6.6	6.4	3.2	4.6	16.8	9.3
11	21.0	10.0	11.8	9.7	9.8	7.6	6.2	7.6	3.4	4.4	14.3	8.8
12	17.3	8.5	15.0	10.2	9.5	6.8	6.0	6.8	3.5	4.2	13.2	8.4
13	15.3	7.2	17.3	10.3	8.6	6.1	5.8	6.0	3.4	4.1	11.0	8.4
14	14.0	9.1	15.6	11.4	8.2	6.0	6.1	5.6	4.3	5.8	10.2	8.0
15	12.0	12.4	22.0	10.2	8.0	6.0	5.7	5.2	7.5	10.9	9.4	8.0
16	10.8	11.1	27.4	9.2	7.7	5.7	5.4	5.0	7.4	10.0	8.4	7.6
17	9.8	11.0	28.1	12.2	7.4	5.6	5.0	5.0	7.2	8.4	8.0	7.2
18	9.1	12.0	28.8	19.6	7.2	5.6	4.5	5.5	5.4	9.2	7.4	7.0
19	9.0	10.7	29.4	18.8	6.7	5.4	4.7	5.7	5.3	14.2	7.2	6.6
20	9.0	10.1	24.7	18.6	6.3	4.9	5.2	9.0	6.2	18.4	7.0	6.6
21	8.6	13.2	20.1	27.4	6.1	4.6	5.4	7.2	7.6	18.6	6.9	6.6
22	8.1	19.0	15.0	30.1	6.0	4.4	5.2	6.2	7.0	15.4	6.7	6.4
23	7.8	17.8	12.2	31.4	5.8	4.4	4.8	7.2	7.8	12.2	6.8	7.0
24	7.6	16.4	12.6	32.8	5.7	4.1	4.4	8.5	9.7	10.6	6.6	15.5
25	7.6	19.0	15.8	32.1	5.6	4.2	4.2	6.2	8.9	9.6	6.4	17.6
26	7.4	19.1	13.4	*28.7	5.4	4.9	3.8	5.8	8.4	8.6	6.2	16.0
27	7.2	18.2	12.5	24.8	5.2	5.8	3.8	5.6	8.2	7.6	6.2	15.7
28	7.0	17.2	11.7	19.5	5.1	5.0	3.4	5.6	8.2	6.6	6.6	17.4
29	8.7	16.2	12.6	14.2	5.0	5.0	3.4	4.7	6.8	6.3	7.2	16.2
30	15.6	.....	14.2	12.3	4.9	5.3	3.3	4.4	7.1	6.0	6.7	13.1
31	16.0	.....	12.8	.....	4.8	.....	3.2	4.4	.....	5.8	.....	12.2

Daily gage height, in feet, of Pea River at Pera, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.
1913								
1	11.2	11.7	18.1	12.6	5.8	3.7	3.9	9.0
2	10.8	11.2	18.4	11.8	5.7	3.7	4.8	7.5
3	10.4	12.0	17.7	11.2	5.6	3.4	5.2	6.4
4	10.2	12.8	15.5	10.3	5.4	4.4	4.4	5.6
5	9.6	11.4	14.0	10.7	5.2	4.4	6.4	5.0
6	9.2	11.4	12.2	10.3	5.0	5.0	5.4	4.4
7	9.0	12.1	10.7	9.8	4.9	7.1	5.4	4.1
8	8.8	13.3	9.9	9.1	4.8	8.2	4.6	3.9
9	8.7	11.3	9.2	8.8	4.8	8.6	3.8	4.0
10	8.3	9.6	11.6	8.6	4.7	10.8	5.0	4.0
11	8.0	9.0	15.0	11.7	4.8	9.8	4.4	4.6
12	9.0	9.1	13.2	13.6	4.9	7.8	3.9	4.8
13	9.7	9.2	15.2	12.4	4.6	7.3	3.6	4.6
14	8.6	9.2	25.7	11.5	5.6	6.9	3.4	4.4
15	8.0	9.2	31.8	10.8	5.4	6.2	4.0	4.6
16	7.8	8.5	38.0	9.2	5.0	5.2	3.8	5.0
17	7.9	8.2	37.9	9.1	5.6	4.6	3.6	4.2
18	8.0	7.8	35.2	8.8	7.0	4.2	3.4	3.7
19	8.1	7.6	32.6	8.6	5.5	4.0	3.3	3.3
20	8.2	7.6	28.2	7.6	5.1	4.2	4.2	2.4
21	8.1	7.5	23.1	7.1	4.6	4.2	8.8	2.0
22	7.7	12.8	27.0	6.8	4.6	4.0	13.8	1.6
23	7.4	15.5	26.0	6.6	4.9	3.9	14.8	2.2
24	7.5	12.6	22.4	6.4	7.8	3.8	12.8	2.6
25	8.2	10.8	18.5	6.2	7.3	3.6	13.8	2.8
26	8.4	9.7	15.6	6.4	6.3	3.5	13.6	2.9
27	9.7	10.0	15.0	6.6	5.4	3.5	14.2	3.0
28	11.2	15.2	16.2	6.4	5.0	3.6	11.2	3.6
29	9.8	.....	15.2	6.2	4.8	3.7	9.0	3.2
30	9.3	.....	14.1	6.2	3.4	4.0	9.7	2.7
31	9.4	.....	13.1	.....	3.6	.....	10.0	2.9

Rating table for Pea River at Pera, Ala., for 1904, 1905 and 1906.

Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.
Feet.	Sec.-feet.	Feet.	Sec.-feet.	Feet.	Sec.-feet.	Feet.	Sec.-Ft.
1.20	150	2.80	378	4.40	704	7.00	1,540
1.30	160	2.90	396	4.50	728	7.20	1,620
1.40	171	3.00	414	4.60	754	7.40	1,700
1.50	182	3.10	432	4.70	780	7.60	1,780
1.60	194	3.20	450	4.80	806	7.80	1,860
1.70	206	3.30	468	4.90	834	8.00	1,940
1.80	218	3.40	488	5.00	862	8.20	2,030
1.90	230	3.50	508	5.20	920	8.40	2,120
2.00	242	3.60	528	5.40	980	8.60	2,210
2.10	258	3.70	548	5.60	1,040	8.80	2,300
2.20	274	3.80	568	5.80	1,105	9.00	2,400
2.30	290	3.90	590	6.00	1,175	9.20	2,500
2.40	306	4.00	612	6.20	1,245	9.40	2,600
2.50	324	4.10	634	6.40	1,315	9.60	2,700
2.60	342	4.20	656	6.60	1,385	9.80	2,800
2.70	360	4.30	680	6.80	1,460	10.00	2,900

The above table is based on discharge measurements made during 1904-1906. It is well defined between gage heights 4 feet and 7 feet. Above 7 feet the curve is uncertain. High-water estimates are rough approximations.

Rating table for Pea River at Pera, Ala., for 1907 and 1908.

Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.
Feet.	*Sec.-ft.*	*Feet.*	*Sec.-ft.*	*Feet.*	*Sec.-ft.*	*Feet.*	*Sec.-ft.*
2.90	373	4.70	739	7.00	1,476	17.00	5,970
3.00	390	4.80	764	7.20	1,552	18.00	6,430
3.10	407	4.90	789	7.40	1,630	19.00	6,890
3.20	425	5.00	815	7.60	1,710	20.00	7,350
3.30	443	5.10	842	7.80	1,791	21.00	7,810
3.40	461	5.20	870	8.00	1,873	22.00	8,270
3.50	480	5.30	898	8.20	1,957	23.00	8,730
3.60	499	5.40	927	8.40	2,041	24.00	9,190
3.70	519	5.50	957	8.60	2,127	25.00	9,650
3.80	539	5.60	988	8.80	2,214	26.00	10,110
3.90	559	5.70	1,019	9.00	2,302	27.00	10,570
4.00	580	5.80	1,051	10.00	2,750	28.00	11,030
4.10	601	5.90	1,084	11.00	3,210	29.00	11,490
4.20	623	6.00	1,117	12.00	3,670	30.00	11,950
4.30	645	6.20	1,185	13.00	4,130	31.00	12,410
4.40	668	6.40	1,255	14.00	4,590		
4.50	691	6.60	1,327	15.00	5,050		
4.60	715	6.80	1,401	16.00	5,510		

Note.—The above table is not applicable for obstructed-channel conditions. It is based on 23 discharge measurements made during 1904-1908, and is well defined between gage heights 1.5 feet and 20 feet.

Daily discharge, in second-feet, of Pea River at Pera, Ala.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1909												
1	741	476	1,550	1,590	3,670	2,660	995	622	326	438	295	353
2	741	457	1,470	1,290	4,870	2,400	1,120	667	372	400	310	381
3	667	466	1,590	1,220	3,670	2,490	1,260	715	419	381	335	448
4	644	476	1,360	1,090	3,210	4,310	1,510	715	344	335	326	419
5	644	466	1,220	1,090	2,750	4,590	1,360	667	362	344	302	410
6	644	691	1,120	1,030	2,440	4,870	965	691	419	318	288	400
7	622	794	1,700	1,030	1,980	4,960	878	715	438	326	295	535
8	578	715	3,490	1,360	1,590	4,960	822	965	390	302	280	715
9	578	741	2,710	1,820	1,360	3,350	715	1,220	381	310	288	644
10	556	2,660	3,950	1,860	1,160	2,230	767	1,400	390	310	280	622
11	556	4,310	3,120	1,660	1,030	1,740	850	1,510	400	302	295	622
12	578	3,210	2,570	1,510	906	1,400	878	1,320	353	362	280	600
13	622	4,410	2,490	1,430	850	1,590	965	1,090	310	295	288	1,510
14	622	6,610	2,620	2,400	794	1,470	2,400	1,030	362	295	280	1,430
15	600	7,440	3,530	1,980	741	1,660	3,070	906	362	288	273	1,160
16	600	7,860	3,760	1,590	600	2,400	2,400	741	390	280	273	1,120
17	691	6,890	3,670	1,290	1,160	2,230	2,020	715	515	280	302	878
18	644	6,710	3,950	1,220	1,030	2,310	1,360	691	622	266	280	794
19	622	5,230	3,490	1,090	1,290	4,220	1,550	850	546	273	288	767
20	578	6,150	2,750	965	1,740	3,670	1,430	667	546	280	280	965
21	556	5,370	2,660	850	1,820	3,760	1,260	622	600	344	310	965
22	556	4,410	3,900	794	1,900	4,130	935	546	1,660	344	310	906
23	567	4,040	5,580	767	1,660	3,210	822	466	1,620	318	353	741
24	546	3,580	7,530	794	1,400	2,310	1,030	438	1,360	318	344	794
25	535	3,030	7,670	935	1,510	1,900	1,030	419	1,550	295	344	767
26	515	2,400	5,370	1,900	2,710	1,510	794	381	965	310	344	906
27	525	1,940	2,930	3,850	2,140	1,660	667	362	878	295	362	850
28	515	1,740	2,310	5,230	1,900	1,550	622	362	794	288	344	794
29	505	.....	2,060	4,900	2,400	1,160	622	344	794	288	318	715
30	535	.....	1,740	4,180	2,570	1,160	667	326	505	295	341	667
31	476	.....	1,550	.....	2,400	.....	667	318	.....	273	.....	622
1910												
1	600	2,270	7,720	935	767	353	1,060	965	505	295	295	667
2	578	1,980	8,410	935	715	344	906	906	476	273	318	622
3	567	1,740	8,500	850	691	335	1,590	794	428	259	302	525
4	567	1,740	8,220	822	644	335	2,310	878	822	273	302	495
5	556	1,510	7,720	906	644	372	4,130	1,470	644	280	310	466
6	589	1,160	5,970	965	578	466	2,840	935	535	302	448	556
7	1,510	995	4,130	935	622	546	2,230	1,090	476	400	556	741
8	1,290	906	3,160	850	505	546	1,860	906	476	419	556	794
9	1,160	906	2,710	850	556	505	2,020	767	515	438	466	667
10	935	850	2,350	741	741	691	1,900	644	567	535	400	644
11	794	965	2,230	691	767	1,030	1,290	556	556	546	381	600
12	767	2,230	3,030	691	741	1,360	1,820	589	644	410	372	567
13	691	1,740	2,660	965	667	1,320	1,090	644	495	353	344	556
14	644	1,510	2,230	1,190	600	1,200	850	1,090	448	344	344	535
15	644	1,360	2,020	1,290	525	1,090	691	794	505	318	353	495
16	600	1,220	1,820	1,320	486	965	644	600	372	302	335	505
17	578	1,220	1,620	2,750	466	995	715	546	362	266	318	495
18	567	4,220	1,590	4,680	457	1,090	1,220	505	525	280	335	715
19	578	4,820	1,510	5,140	428	644	1,160	466	372	266	466	965
20	600	3,210	1,400	5,690	438	850	1,190	438	410	266	622	906
21	741	2,660	1,320	5,970	438	644	1,160	1,030	353	266	691	794
22	965	3,490	1,290	3,900	466	691	965	1,120	326	259	644	691
23	822	3,350	1,260	2,140	495	965	965	741	318	246	578	644
24	741	4,500	1,220	1,660	556	850	3,120	546	310	239	505	850
25	715	6,200	1,220	1,290	578	741	5,510	495	288	252	476	878
26	691	4,960	1,220	1,090	567	691	6,250	486	273	259	476	794
27	667	3,670	1,220	1,020	505	644	4,410	476	280	246	428	741
28	878	5,330	1,090	935	457	567	2,660	428	295	362	505	644
29	2,800	.....	1,030	906	448	567	1,900	381	280	326	767	644
30	2,570	.....	1,030	850	410	644	1,740	362	318	390	906	691
31	2,930	.....	965	.....	362	.....	1,030	410	.....	344	.....	1,090

NOTE.—These discharges were obtained from a well-defined rating curve.

Daily discharge, in second-feet, of Pea River at Pera, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
911												
1	1,160	715	644	850	850	362	362	224	252	197	310	741
2	985	691	644	715	1,510	372	310	310	266	184	295	644
3	2,930	667	580	622	1,580	318	556	457	266	171	266	556
4	5,060	691	600	578	1,360	288	622	644	210	184	266	515
5	3,930	850	556	906	1,160	273	419	644	197	184	252	515
6	3,390	741	546	1,000	1,030	263	344	556	238	184	245	476
7	2,930	691	535	1,360	878	295	295	381	252	184	381	438
8	2,400	667	546	1,090	767	390	280	362	310	171	476	419
9	1,980	644	515	1,260	644	381	280	326	362	184	476	400
10	1,880	644	515	2,230	535	318	400	295	326	171	438	400
11	1,700	644	515	1,660	496	288	400	295	328	224	438	362
12	1,400	691	496	4,060	457	252	362	326	362	362	381	400
13	1,220	1,030	505	4,130	419	259	457	535	295	419	344	362
14	1,060	1,160	496	2,890	428	266	362	556	252	326	362	400
15	1,030	1,090	486	2,020	381	231	362	600	238	266	326	381
16	985	985	644	1,620	353	362	310	515	238	238	326	400
17	906	906	567	1,360	335	372	578	496	238	252	310	400
18	906	878	535	1,120	390	280	880	496	252	457	326	362
19	850	822	486	995	390	217	715	691	266	419	344	400
20	822	1,160	486	2,490	400	344	794	1,030	252	362	326	556
21	850	2,230	496	2,310	438	362	691	667	238	295	362	1,400
22	794	1,430	525	1,660	438	372	644	622	238	457	326	2,060
23	794	1,030	608	1,260	410	326	535	515	224	622	295	8,180
24	794	906	667	1,030	428	428	515	400	224	515	295	7,030
25	741	850	691	906	546	335	419	362	210	438	326	5,280
26	741	767	1,120	767	476	335	400	326	210	362	295	4,080
27	767	691	3,620	715	390	280	344	295	224	326	295	3,390
28	794	644	3,030	850	353	400	280	238	210	310	741	2,930
29	794	.....	1,900	906	326	428	266	238	210	326	1,290	2,270
30	741	.....	1,290	794	295	344	252	280	197	295	935	2,080
31	741	.....	1,030	.....	280	.....	224	266	.....	310	.....	4,590
1912												
1	7,350	5,050	4,770	3,670	4,040	794	906	476	600	2,180	1,090	1,360
2	6,460	5,148	3,760	3,300	4,500	965	1,090	741	535	2,310	1,030	1,360
3	4,870	5,600	3,070	3,300	4,590	3,030	1,090	1,060	515	1,820	1,060	1,200
4	5,560	4,500	2,930	3,030	4,500	1,550	1,400	1,190	476	1,660	965	1,430
5	4,680	2,930	4,770	2,530	3,850	1,220	1,590	1,510	476	1,590	906	4,820
6	3,670	2,440	4,410	2,230	3,580	1,030	1,360	1,120	495	1,160	1,160	4,540
7	3,760	2,140	3,760	2,060	3,850	1,590	1,160	906	476	1,030	6,980	3,670
8	5,600	1,900	3,260	1,900	4,310	2,440	1,030	1,040	457	906	9,010	3,530
9	9,190	1,820	3,120	1,820	3,390	1,980	1,290	1,090	400	794	8,090	2,980
10	8,590	1,740	3,760	1,740	2,840	1,590	1,360	1,290	438	741	5,880	2,440
11	7,810	2,750	3,580	2,620	2,660	1,740	1,220	1,740	476	691	4,730	2,230
12	6,110	2,100	5,050	2,840	2,530	1,430	1,160	1,430	495	644	4,220	2,060
13	5,190	1,590	6,110	2,890	2,140	1,190	1,090	1,160	476	622	3,210	2,060
14	4,590	2,350	5,330	3,390	1,980	1,160	1,190	1,030	667	1,090	2,840	1,900
15	3,670	3,850	8,270	2,840	1,900	1,160	1,080	906	1,700	3,160	2,490	1,900
16	3,120	3,260	10,800	2,400	1,780	1,060	965	850	1,660	2,750	2,060	1,740
17	2,660	3,210	11,100	3,760	1,660	1,030	850	850	1,590	2,060	1,900	1,590
18	2,350	3,670	11,400	7,170	1,590	1,030	715	995	965	2,400	1,660	1,510
19	2,310	3,070	11,700	6,800	1,400	965	767	1,060	935	4,680	1,590	1,360
20	2,310	2,800	9,510	6,710	1,260	822	906	2,310	1,220	6,610	1,510	1,360
21	2,140	4,220	7,400	10,800	1,190	741	965	1,590	1,740	6,710	1,470	1,360
22	1,940	6,890	5,050	12,000	1,160	691	906	1,220	1,510	5,230	1,400	1,290
23	1,820	6,340	3,760	12,600	1,090	691	794	1,590	1,820	3,760	1,430	1,510
24	1,740	5,600	3,950	13,200	1,060	622	691	2,100	2,620	3,030	1,360	5,280
25	1,740	6,890	5,420	12,900	1,030	644	644	1,220	2,270	2,570	1,290	6,250
26	1,660	6,940	4,310	11,400	965	822	556	1,090	2,080	2,140	1,220	5,510
27	1,590	6,520	3,900	9,560	906	1,090	556	1,030	1,980	1,740	1,220	5,370
28	1,510	6,060	3,530	7,120	878	850	476	1,030	1,980	1,368	1,360	6,150
29	2,180	5,600	3,950	4,680	850	850	476	767	1,430	1,260	1,590	6,600
30	5,330	.....	4,680	3,810	822	935	457	691	1,550	1,160	1,400	4,180
31	5,510		4,040	.....	794	.....	438	691	.....	1,090	.....	3,760

Daily discharge, in second-feet, of Pea River at Pera, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug
1913								
1	3,300	3,530	6,480	3,950	1,090	535	578	2,310
2	3,120	3,300	6,610	3,580	1,060	535	794	1,700
3	2,930	3,670	6,200	3,300	1,030	476	906	1,290
4	2,840	4,040	5,280	2,800	965	691	691	1,030
5	2,570	3,390	4,590	3,070	906	691	1,290	850
6	2,400	3,390	3,760	2,890	850	850	965	691
7	2,310	3,720	3,070	2,660	822	1,550	965	622
8	2,230	4,270	2,710	2,350	794	1,980	741	578
9	2,180	3,350	2,400	2,230	794	2,140	556	600
10	2,020	2,570	3,490	2,140	767	2,800	850	600
11	1,900	2,310	5,050	3,530	794	2,660	691	741
12	2,310	2,350	4,220	4,410	822	1,820	578	794
13	2,620	2,400	5,140	3,850	741	1,620	515	741
14	2,140	2,400	9,970	3,440	1,030	1,470	476	691
15	1,900	2,400	12,800	3,120	965	1,220	600	741
16	1,820	2,100	15,600	2,400	850	906	556	850
17	1,860	1,980	15,600	2,350	1,030	741	515	644
18	1,900	1,820	14,300	2,230	1,510	644	476	535
19	1,940	1,740	13,100	2,140	995	600	457	457
20	1,980	1,740	11,100	1,740	878	644	644	295
21	1,940	1,700	8,780	1,550	741	644	2,230	238
22	1,780	4,040	10,600	1,430	741	600	4,500	184
23	1,660	5,280	10,100	1,360	822	578	4,960	280
24	1,700	3,950	8,450	1,290	1,820	556	4,040	326
25	1,980	3,120	6,660	1,220	1,620	515	4,500	362
26	2,060	2,620	5,330	1,290	1,260	495	4,410	381
27	2,620	2,750	5,050	1,360	965	495	4,680	400
28	3,300	5,140	5,000	1,290	850	515	3,300	515
29	2,660	.....	5,140	1,220	794	535	2,310	438
30	2,440	.....	4,640	1,220	476	600	2,620	344
31	2,490	.....	4,190	.....	515	.....	2,750	381

Note.—Daily discharge determined from a rating curve well defined below 7,000 second-feet. Because of uncertainties due to power regulation and lack of measurements since 1911, daily discharge should be used with caution.

Monthly discharge of Pea River at Pera, Ala.

[Drainage area, 1,180 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum	Minimum	Mean.	Sec.-feet per squar mile.	Depth in inches.
1904					
August 27-31	1,740	780	1,369	1.16	0.216
September	950	171	375	.318	.365
October	258	150	176	.149	.172
November	342	160	267	.226	.252
December	1,940	274	791	.670	.772
1905					
January	3,750	612	1,186	1.01	1.16
February	12,600	754	4,745	4.02	4.19
March	3,300	1,140	1,910	1.62	1.87
April	5,500	728	1,779	1.51	1.68
May	4,550	508	1,115	.945	1.09
June	1,245	324	600	.508	.567
July	1,140	258	517	.438	.505
August	3,350	468	1,214	1.03	1.19
September	1,105	242	431	.365	.407
October	1,580	360	606	.514	.593
November	728	360	499	.423	.472
December	9,300	450	3,623	3.07	3.54
The year	12,600	242	1,519	1.29	17.26

Monthly discharge of Pea River at Pera, Ala.—Continued.

[Drainage area, 1,180 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-feet per square mile.	Depth in inches.
1906					
January	7,650	1,740	3,680	3.12	3.60
February	4,050	1,540	2,190	1.86	1.94
March	6,800	1,540	3,280	2.78	3.20
April	2,160	590	1,170	.992	1.11
May	5,000	528	1,480	1.25	1.44
June	2,260	414	752	.637	.71
July	5,700	468	2,060	1.75	2.02
August	2,450	414	857	.726	.84
September	8,250	342	1,150	.975	1.09
October	6,600	634	1,760	1.49	1.72
November	4,000	528	1,250	1.06	1.18
December	4,300	728	1,130	.958	1.10
The year	8,250	342	1,730	1.47	19.95
1907					
January	6,110	927	1,950	1.65	1.90
February	4,540	988	1,880	1.55	1.61
March	4,310	764	2,040	1.73	1.99
April	6,150	789	2,640	2.24	2.50
May	5,880	898	2,060	1.75	2.02
June	870	425	597	.506	.56
July	2,210	461	965	.818	.94
August	3,810	549	1,440	1.22	1.41
September	6,060	452	1,450	1.23	1.37
October	3,120	519	980	.831	.96
November	6,110	539	1,860	1.58	1.76
December	8,450	1,870	5,270	4.47	5.15
The year	8,450	425	1,920	1.63	22.17
1908					
January	8,640	2,300	5,110	4.33	4.99
February	10,100	3,210	5,650	4.79	5.17
March	12,200	1,180	4,060	3.44	3.97
April	11,900	1,870	4,140	3.51	3.92
May	8,910	1,120	3,010	2.55	2.94
June	1,670	623	947	.803	.90
July	2,040	570	1,020	.864	1.00
August	1,630	398	788	.668	.77
September	1,630	398	747	.633	.71
October	1,120	382	552	.468	.54
November	1,400	539	680	.576	.64
December	1,180	549	705	.597	.69
The year	12,200	382	2,280	1.94	26.24
1909					
January	741	476	592	0.502	0.58
February	7,860	457	3,330	2.82	2.94
March	7,670	1,120	3,090	2.62	3.02
April	5,230	767	1,760	1.49	1.66
May	4,870	600	1,910	1.62	1.87
June	4,960	1,160	2,730	2.31	2.58
July	3,070	622	1,180	1.00	1.15
August	1,510	318	725	.614	.71
September	1,660	310	632	.536	.60
October	438	266	315	.267	.31
November	362	273	307	.260	.29
December	1,510	353	758	.642	.74
The year	7,860	266	1,440	1.22	16.45

Monthly discharge of Pea River at Pera, Ala.—Continued.

[Drainage area, 1,180 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-feet per square mile.	Depth in inches.
1910					
January	2,930	556	946	0.802	0.92
February	6,200	850	2,530	2.14	2.23
March	8,500	965	2,960	2.51	2.89
April	5,970	691	1,770	1.50	1.67
May	767	362	559	.474	.55
June	1,360	335	735	.623	.70
July	6,250	644	1,980	1.68	1.94
August	1,470	362	712	.603	.70
September	822	278	489	.372	.42
October	546	239	323	.274	.32
November	906	295	460	.390	.44
December	1,090	466	677	.574	.66
The year	8,500	239	1,170	.992	13.44
1911					
January	5,050	741	1,490	1.26	1.45
February	2,230	644	889	.753	.78
March	3,620	466	834	.707	.82
April	4,130	578	1,500	1.27	1.24
May	1,590	280	605	.513	.59
June	428	217	324	.275	.31
July	850	224	440	.373	.43
August	1,030	224	450	.381	.44
September	362	197	253	.214	.24
October	622	171	303	.257	.30
November	1,290	245	402	.341	.38
December	8 ,180	362	1,710	1.45	1.67
The year	8,180	171	767	.650	8.83
1912					
January	9,190	1,510	4,060	3.44	3.97
February	6,940	1,590	4,040	3.42	3.69
March	11,700	2,930	5,500	4.66	5.37
April	13,200	1,740	5,500	4.66	5.20
May	4,590	794	2,230	1.89	2.18
June	3,030	622	1,190	1.01	1.13
July	1,590	438	941	.797	.92
August	2,310	476	1,150	.975	1.12
September	2,620	400	1,130	.958	1.07
October	6,710	622	2,220	1.88	2.17
November	9,010	906	2,540	2.15	2.40
December	6,250	1,290	2,950	2.50	2.88
The year	13,200	400	2,780	2.36	32.10
1913					
January	3,300	1,660	2,290	1.94	2.24
February	5,280	1,700	3,040	2.58	2.69
March	15,600	2,400	7,290	6.18	7.12
April	4,410	1,220	2,380	2.02	2.25
May	1,820	476	945	.801	.92
June	2,890	476	1,010	.856	.96
July	4,960	457	1,750	1.48	1.71
August	2,310	184	665	.564	.65

PEA RIVER AT ELBA, ALA.

This temporary station, located at the railroad bridge in the town of Elba, was established on June 8, 1906, and was discontinued December 31, of same year. Measurements were made from the bridge and the chain gage was attached to the downstream guard rail of same.

Discharge measurements of Pea River at Elba, Ala., for 1905 and 1906.

Date.	Gage height. Feet.	Discharge. Sec.-ft.
1905		
October 17	3.59	455
1906		
February 21	4.10	1,630
September 15	3.20	325
September 17	3.10	261
September 18	3.10	297

Daily gage height, in feet, of Pea River at Elba, Ala., for 1906.

Day	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1		4.1	3.55	3.3	8.4	3.6	4.1
2		3.65	3.4	3.3	7.5	3.6	4.0
3		4.5	3.4	3.2	7.9	3.5	4.1
4		3.85	3.85	3.1	6.2	3.5	4.1
5		3.55	3.55	3.1	5.5	3.5	4.0
6		3.3	3.55	3.55	6.1	3.5	4.0
7		3.2	3.65	3.55	6.8	3.5	4.0
8	3.56	3.2	3.4	3.55	5.4	3.5	3.9
9	3.4	3.65	3.3	4.3	4.8	3.5	3.9
10	3.55	6.6	3.3	3.55	4.7	3.5	4.0
11	3.75	4.6	4.2	3.55	4.4	3.4	4.4
12	3.75	5.6	6.6	3.4	4.2	3.6	4.32
13	3.65	6.6	5.0	3.3	4.2	3.55	4.2
14	3.95	6.6	5.2	3.2	4.0	4.6	4.1
15	4.3	7.6	5.5	3.2	3.8	4.3	4.0
16	3.95	6.6	4.7	3.1	3.7	4.0	4.1
17	5.3	7.6	4.3	3.0	3.6	4.1	4.5
18	4.5	5.6	3.95	3.0	3.7	7.0	4.9
19	3.95	5.1	3.85	2.9	3.9	10.0	4.7
20	3.85	5.1	3.65	2.9	4.0	5.9	5.3
21	3.65	5.0	3.4	3.1	4.1	6.0	5.0
22	3.4	4.9	3.55	3.3	4.4	6.0	4.8
23	3.2	4.5	3.4	3.3	4.3	5.6	4.7
24	3.2	4.4	3.4	3.2	4.2	5.4	4.5
25	3.1	4.1	3.3	3.2	4.1	5.3	4.4
26	3.3	3.75	3.3	3.2	4.0	5.0	4.3
27	3.2	4.5	3.4	3.3	3.8	4.8	4.2
28	3.2	4.2	3.4	6.6	3.8	4.4	4.2
29	3.1	4.1	3.2	9.6	3.7	4.3	4.5
30	3.1	4.1	3.1		3.6	4.1	4.8
31		3.75	3.1		3.6		11.8

DOUBLE BRIDGES CREEK AT GENEVA, ALA.

Location.—At wagon bridge, three-fourths mile above mouth of creek where it enters Choctawhatchee River.

Records available.—August 26 to December 31, 1904.

Drainage area.—Not determined.

Gage.—Vertical staff.

Channel.—Good, but affected by back water from Choctawhatchee River.

Discharge measurements.—Made from the wagon bridge.

Artificial control.—None.

Accuracy.—Good for low water only, as back water from Choctawhatchee River affects gage heights at higher stages.

Discharge measurements of Double Bridges Creek at Geneva, Ala.

Date.	Gage height. Feet.	Discharge. Sec.-ft.	Date.	Gage height. Feet.	Discharge. Sec.-ft.
1904			1904		
May 27	1.61	124	November 18	1.52	101
June 21	1.24	99	November 18	1.60	115
August 26	4.63	633	1905		
September 26	1.45	84	March 29	3.15	227
September 26	1.82	115	June 14	4.25	518

Mean daily gage height, in feet, of Double Bridges Creek at Geneva, Ala. for 1904.

Day.	Aug.	Sept.	Oct.	Nov.	Dec.	Day.	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	3.10	1.35	1.45	1.40	17	.....	1.40	.90	1.60	2.35
2	.....	2.50	1.25	1.80	3.35	18	.....	1.65	1.10	1.70	2.60
3	.....	2.20	1.00	2.70	5.90	19	.....	1.75	1.20	1.40	2.80
4	.....	2.10	1.00	2.70	4.80	20	.....	1.30	1.05	1.60	2.00
5	.....	2.10	1.30	2.10	5.25	21	.....	1.30	.85	1.60	1.95
6	.....	2.40	1.05	1.70	5.40	22	.....	1.20	.90	1.70	2.05
7	.....	2.50	1.45	1.65	4.30	23	.....	1.55	1.10	2.45	1.90
8	.....	2.85	1.70	1.40	2.95	24	.....	1.35	.90	2.30	2.10
9	.....	1.85	1.05	1.30	2.50	25	.....	1.45	1.00	1.90	1.90
10	.....	1.90	1.15	1.15	2.75	26	.....	1.25	.90	1.45	2.05
11	.....	1.80	1.15	1.40	2.60	27	4.90	1.40	1.05	1.75	2.05
12	.....	1.60	1.05	1.45	2.50	28	5.50	1.30	1.10	1.15	4.30
13	.....	1.40	1.15	2.40	2.00	29	4.60	1.30	1.30	1.70	4.80
14	.....	1.50	1.10	2.05	2.10	30	3.00	1.35	1.40	1.60	3.30
15	.....	1.30	.85	1.75	2.15	31	3.00	.....	1.10	.....	2.60
16	.....	1.40	1.10	1.60	2.05						

Escambia River Drainage Basin.

DESCRIPTION.

Escambia River drains the south-central portion of Alabama and discharges into the Gulf of Mexico through Escambia Bay and Pensacola Bay. Conecuh River joins the Escambia about 5 miles south of the Alabama-Florida state line, and is very much the larger of the two branches. Conecuh River rises in Bullock County, Ala., very close to the headwaters of Pea River, in the Choctawhatchee drainage basin, and flows southwestward throughout its entire course. Pigeon and Patsaliga creeks, both from the west, are the principal tributaries of Conecuh River. The Conecuh and its tributaries are swift streams, and at places there are rocky shoals and rapids.

This small basin lies directly west of the Choctawhatchee River basin, to which it is very similar in topographic, geologic, and climatic features.

The following gaging station has been maintained in this river basin:

Conecuh River at Beck, Ala., 1904-1915.

CONECUH RIVER AT BECK, ALA.

Location.—At Simmons Bridge at Beck, about 12 miles below the mouth of Patsaliga Creek, 8 miles west of Andalusia, Ala.

Records available.—August 24, 1904, to September 30, 1915.

Drainage area.—1,290 square miles.

Gage.—Standard chain gage attached to the upstream side of the wagon bridge; datum unchanged.

Channel.—In soft bed rock and practically permanent. Both banks are subject to overflow at high stages.

Discharge measurements.—Made from the wagon bridge.

Artificial control.—The flow is probably not affected by artificial control, but at times may be affected by logging operations.

Accuracy.—Conditions of flow at this station are practically permanent and a good rating has been developed.

Discharge measurements of Conecuh River at Beck, Ala.

Date.	Gage height. Feet.	Discharge. Sec.-ft.	Date.	Gage height. Feet.	Discharge. Sec.-ft.
1904			1907		
May 26	1.67	320	April 24	14.74	6,940
June 24	1.18	238	November 23	10.74	4,770
August 24	2.63	588	November 23	10.71	4,600
September 28	1.20	245	1908		
September 28	1.20	244	June 16	3.28	806
November 19	1.40	292	1909		
November 19	1.40	290	August 6	4.62	1,280
1905			August 6	4.35	1,160
March 27	5.03	1,658	December 3	2.04	404
March 31	3.77	1,055	December 3	2.04	390
June 18	1.43	288	1910		
October 19	2.03	408	December 16	2.27	456
1906			December 16	2.27	450
February 23	5.18	1,680	1911		
June 7	2.06	481	October 18	1.71	340
September 18	3.22	871	October 18	1.68	336

No discharge measurements in 1912, 1913, 1914, 1915.

Daily gage height, in feet, of Conecuh River at Beck, Ala., for 1904.

Day.	Aug.	Sept.	Oct.	Nov.	Dec.	Day.	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	3.50	1.10	0.80	1.50	17	.....	1.30	0.85	1.40	2.20
2	.....	2.80	1.00	.90	2.30	18	.....	1.40	.90	1.40	2.20
3	.....	2.90	1.00	1.45	2.60	19	.....	1.20	.95	1.40	2.10
4	.....	5.35	.70	1.40	2.65	20	.....	1.20	.95	1.35	2.00
5	.....	4.10	.80	1.25	4.00	21	.....	1.00	.80	1.35	2.00
6	.....	3.40	.85	1.25	3.70	22	.....	1.40	.80	1.70	1.80
7	.....	2.90	1.30	1.30	3.35	23	.....	1.30	.80	1.85	1.75
8	.....	2.30	1.00	1.35	3.30	24	3.60	1.20	.85	1.50	1.75
9	.....	2.20	1.00	1.35	3.00	25	4.70	1.20	.90	1.80	1.80
10	.....	2.20	1.05	1.30	2.90	26	3.10	1.00	.90	1.85	1.85
11	.....	2.00	.85	1.30	2.80	27	2.90	1.00	.90	1.70	1.95
12	.....	1.70	1.00	1.15	2.50	28	5.70	1.05	.90	1.70	4.40
13	.....	1.80	.95	1.35	2.40	29	4.50	1.05	.90	1.60	3.50
14	.....	1.60	.95	1.40	2.35	30	4.00	1.10	.85	1.60	3.60
15	.....	1.60	.80	1.20	2.20	31	3.50	.....	.85	.....	3.50
16	.....	1.50	.80	1.20	2.20						

Mean daily gage height, in feet, of Conecuh River, at Beck, Ala.—Continued

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1905												
1	3.4	3.5	5.7	3.6	2.6	4.7	2.7	1.75	1.8	1.1	1.65	2.0
2	3.4	3.4	5.4	3.6	2.55	3.0	3.0	4.1	1.7	1.1	1.6	2.2
3	3.1	3.2	5.2	3.4	2.45	3.0	2.4	2.85	1.5	1.4	1.6	4.6
4	2.7	3.3	4.9	3.3	2.5	2.95	2.2	2.9	1.8	1.7	1.6	3.4
5	2.5	3.2	4.8	3.9	2.45	2.9	2.1	3.0	1.8	1.75	1.5	4.0
6	2.7	4.6	4.7	4.0	2.35	2.9	2.0	2.7	2.05	1.75	1.5	4.4
7	3.0	5.0	4.6	3.9	2.3	2.75	1.8	2.35	1.8	1.7	1.55	4.2
8	3.4	7.4	4.4	3.8	2.2	2.7	1.75	2.0	1.7	1.6	1.4	4.0
9	3.0	10.8	4.6	3.5	3.0	2.6	1.7	2.4	1.65	1.7	1.35	3.8
10	3.2	10.6	4.6	3.8	2.35	2.3	1.7	2.7	1.45	2.4	1.5	3.5
11	2.9	9.0	4.8	3.4	2.2	1.8	2.7	2.1	1.4	3.6	2.4	3.5
12	3.4	15.6	5.5	4.2	2.5	1.7	2.4	3.4	1.4	3.1	2.2	3.7
13	5.6	20.2	5.6	7.0	2.2	1.5	2.15	4.4	2.0	3.0	2.3	3.8
14	5.8	21.9	5.6	6.8	2.05	1.9	1.85	3.8	1.7	2.9	2.7	4.2
15	5.3	22.5	5.3	5.8	3.6	2.3	1.8	3.6	1.65	2.5	2.4	4.4
16	5.1	21.6	5.3	5.8	5.8	1.8	1.8	4.9	2.0	2.2	2.3	4.5
17	4.9	23.3	5.0	5.7	5.3	1.75	1.85	4.3	1.9	2.0	2.2	4.7
18	4.4	24.1	4.8	5.7	5.5	1.7	2.0	4.3	1.6	2.1	2.1	4.7
19	4.6	21.1	4.5	5.5	5.0	1.7	1.6	4.1	1.7	1.85	2.0	4.6
20	4.1	19.5	5.3	4.6	4.5	2.5	1.4	3.9	1.7	2.0	1.9	7.1
21	3.9	18.2	6.0	3.6	4.0	1.9	1.2	3.8	1.5	2.3	1.9	8.9
22	3.7	10.8	6.0	3.4	3.6	1.85	1.2	3.8	1.4	1.8	1.85	8.3
23	3.5	9.1	6.0	3.2	3.7	2.0	1.2	3.6	1.35	1.6	1.7	8.1
24	4.3	8.2	6.0	3.2	3.6	2.25	1.2	2.4	1.2	1.6	1.7	9.0
25	4.5	7.5	5.6	3.0	4.5	2.1	1.5	2.2	1.2	1.55	1.65	8.9
26	4.8	6.7	5.6	2.95	3.1	2.05	1.6	2.4	1.1	2.0	1.6	8.5
27	4.3	6.4	5.2	2.85	3.1	2.15	1.4	2.2	1.1	1.7	1.6	8.4
28	3.9	6.0	4.6	2.75	3.1	3.5	1.35	2.4	1.05	1.7	1.9	10.0
29	3.8	.....	4.2	2.75	3.1	3.0	1.4	2.4	1.2	1.75	2.0	10.4
30	3.7	.....	4.0	2.65	3.0	4.2	2.0	2.2	1.3	1.8	2.0	9.3
31	3.6	.....	3.8	.....	3.4	.....	2.4	2.0	.....	1.7	.....	8.2
1906												
1	7.3	6.5	5.3	6.3	2.5	2.8	1.6	2.9	1.6	15.1	2.9	3.5
2	6.6	5.8	5.2	6.7	2.4	2.6	2.4	2.7	1.6	15.3	2.9	3.3
3	5.0	5.2	10.3	7.2	2.2	2.5	2.0	2.5	1.6	16.9	2.9	3.2
4	10.4	4.8	11.2	7.5	2.7	2.3	2.3	2.4	1.4	17.6	2.8	3.0
5	9.2	4.5	10.4	7.0	5.2	2.2	2.2	2.9	1.8	16.6	2.8	3.0
6	7.8	4.2	8.5	6.1	6.0	2.2	2.3	2.5	2.1	16.3	2.7	2.9
7	7.7	4.5	7.6	5.4	6.5	2.1	2.3	2.3	1.9	14.1	2.7	2.9
8	6.8	6.0	10.4	4.7	7.3	1.9	2.35	2.2	1.8	11.8	2.7	2.8
9	6.9	8.1	11.3	4.3	7.1	1.9	2.45	2.0	2.8	9.0	2.6	2.8
10	6.6	8.8	11.0	4.2	6.2	2.1	2.5	1.9	3.0	7.6	2.6	3.0
11	6.5	7.7	9.7	4.2	5.9	2.0	3.7	3.9	4.5	6.9	2.6	3.3
12	6.8	7.2	9.2	4.2	5.6	1.9	4.8	4.8	4.3	6.4	2.6	3.4
13	6.6	6.8	8.8	4.1	5.9	2.2	4.1	3.0	3.3	5.8	2.5	3.4
14	6.0	7.1	8.9	4.1	5.7	2.6	4.2	7.2	3.0	5.2	2.5	3.3
15	5.8	7.5	10.5	5.8	4.8	3.2	6.2	5.5	2.6	4.5	3.5	3.2
16	5.5	7.2	9.7	6.2	4.2	2.7	7.3	4.3	2.8	4.3	3.1	3.1
17	5.2	7.0	8.4	5.6	3.4	2.7	6.8	3.7	2.8	4.0	3.2	3.3
18	4.9	6.1	7.6	5.3	3.1	2.7	6.7	3.1	2.3	3.9	4.5	3.4
19	5.0	5.4	6.8	4.9	2.9	2.4	7.7	2.8	2.0	3.8	4.9	3.9
20	5.1	5.1	6.7	4.5	2.7	2.8	7.4	2.6	1.9	3.8	4.9	4.0
21	5.3	5.4	6.7	4.1	2.7	2.4	6.1	2.4	1.8	3.7	5.0	3.9
22	6.5	5.3	6.2	3.7	2.7	1.9	6.2	2.4	2.1	3.6	5.2	3.8
23	8.9	5.2	6.3	3.5	2.6	1.8	5.9	2.2	2.4	3.6	4.9	3.8
24	9.0	5.0	6.2	3.2	2.6	1.8	4.9	2.0	2.8	3.6	4.7	3.7
25	7.6	4.2	6.1	3.0	3.0	1.7	4.2	1.8	2.6	3.5	4.5	3.6
26	7.3	5.6	6.3	2.9	3.1	1.6	4.0	1.8	2.4	3.4	4.4	3.4
27	7.2	5.4	6.0	2.8	3.2	1.5	4.4	1.9	6.0	3.3	4.2	3.2
28	7.6	5.7	6.0	2.7	3.7	1.5	5.1	1.9	16.0	3.2	4.0	3.2
29	8.4	.....	5.8	2.6	3.5	1.5	4.4	1.8	16.5	3.1	3.9	3.3
30	8.4	.....	5.8	2.5	3.5	1.5	4.4	1.7	16.3	3.0	3.8	3.4
31	7.6	.....	5.7	.....	3.1	.....	3.4	1.6	.....	3.0	.....	3.3

Daily gage height, in feet, of Conecuh River at Beck, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1907.												
1	7.6	4.5	10.4	3.8	7.9	4.9	2.9	4.7	.....	5.0	2.1	.....
2	7.3	4.8	12.5	3.7	7.4	.....	3.1	4.3	.....	4.4	2.5	9.9
3	6.6	.....	12.1	3.8	7.1	4.1	4.0	4.4	3.1	3.8	.....	9.7
4	6.4	4.1	11.0	3.7	8.0	3.8	4.4	.....	2.6	3.6	2.5	9.4
5	6.4	4.0	10.5	3.5	.....	3.6	5.0	5.0	2.6	3.2	2.7	8.6
6	6.6	3.9	10.9	9.9	7.0	3.4	4.4	4.2	2.8	.....	2.7	8.1
7	6.4	3.7	12.1	.....	6.2	3.2	.....	5.6	2.5	3.8	2.5	7.8
8	6.1	3.8	12.4	5.8	6.1	3.1	4.3	5.1	.....	3.7	2.4	.....
9	5.8	3.7	11.3	5.3	7.0	.....	4.2	4.7	4.1	4.7	2.4	6.6
10	5.3	.....	9.0	5.5	7.7	2.8	3.6	9.9	4.5	4.4	.....	9.0
11	4.7	3.8	7.3	5.4	7.8	2.7	2.8	.....	3.0	3.0	2.6	9.5
12	4.4	3.7	6.2	5.3	.....	3.4	2.7	9.5	2.8	2.8	2.6	8.4
13	4.1	3.9	5.4	5.4	7.7	3.0	2.5	6.7	2.7	.....	2.8	10.8
14	4.0	4.8	6.4	.....	7.7	3.1	.....	12.8	2.5	2.5	2.7	13.1
15	3.8	4.4	7.3	4.2	13.6	2.9	4.4	12.2	.....	2.4	2.7	.....
16	3.8	4.0	7.6	3.7	12.7	.....	3.7	9.2	2.4	2.4	2.6	12.4
17	3.7	.....	.....	3.6	12.8	2.8	5.4	5.8	2.4	2.3	.....	11.3
18	3.7	3.8	7.8	4.0	11.7	2.7	5.4	.....	2.3	2.2	3.0	10.8
19	3.6	3.7	7.9	5.9	.....	2.7	5.3	4.0	2.2	2.2	2.9	10.5
20	3.8	3.8	8.0	7.6	10.3	2.6	3.9	3.6	2.4	.....	2.8	10.7
21	4.0	3.6	8.2	.....	9.8	2.6	.....	3.3	2.8	2.1	3.5	10.8
22	4.1	.....	7.8	12.4	9.1	2.5	3.0	3.2	.....	2.1	5.8	.....
23	4.3	3.6	6.8	14.3	8.4	.....	2.7	3.1	5.6	2.0	10.0	18.4
24	4.0	.....	.....	14.6	10.4	2.4	2.5	3.3	4.1	2.2	.....	19.3
25	3.8	4.3	4.7	13.6	8.4	2.3	2.4	.....	3.6	2.2	8.7	19.9
26	3.6	4.8	4.3	11.4	.....	2.3	3.9	3.1	3.2	2.1	8.5	18.0
27	3.9	5.6	4.0	10.0	5.3	2.4	3.6	2.6	2.8	.....	8.2	16.0
28	4.1	5.4	3.8	.....	6.9	2.5	.....	2.6	4.6	2.3	.....	16.6
29	4.0	.....	3.5	9.9	6.2	2.4	3.5	2.8	.....	2.2	11.8	.....
30	4.0	.....	3.4	9.2	.....	.....	5.1	2.5	5.7	2.1	11.7	23.4
31	4.4	.....	.....	.....	5.0	.....	5.7	2.8	.....	2.1	.....	25.1
1908.												
1	.....	20.5	.....	15.0	22.1	4.4	2.8	3.4	2.1	2.2	.....	2.2
2	22.2	.....	8.2	12.0	23.2	4.7	2.8	.....	2.0	2.2	2.5	2.2
3	23.3	20.8	7.8	9.7	.....	4.1	2.8	3.5	2.0	2.1	2.5	2.3
4	22.9	19.9	7.5	8.6	16.1	4.1	.....	3.4	2.2	.....	3.1	2.3
5	.....	23.7	6.9	.....	11.4	4.0	.....	3.0	2.2	1.7	3.6	2.3
6	.....	24.9	6.5	7.2	14.4	3.9	3.5	3.0	.....	1.6	3.9	.....
7	19.1	21.8	6.4	6.8	13.6	.....	4.7	2.8	.....	1.8	3.5	2.3
8	18.0	17.1	.....	7.0	12.6	4.2	4.2	3.2	2.5	1.7	.....	2.3
9	17.6	.....	6.0	7.2	11.1	4.2	4.1	.....	2.5	1.7	2.8	2.3
10	15.9	12.7	5.8	7.1	.....	4.0	4.0	2.9	2.4	1.9	2.6	2.2
11	15.8	12.2	5.7	6.5	9.2	3.8	4.1	2.9	2.8	.....	2.7	2.2
12	.....	11.1	5.7	.....	8.8	4.4	.....	2.9	2.7	2.1	2.5	2.7
13	17.4	10.3	5.5	6.0	8.2	3.7	4.0	2.7	.....	2.3	2.4	.....
14	16.5	9.6	5.4	5.9	7.8	.....	3.6	2.4	2.2	2.1	2.4	2.8
15	14.4	11.5	.....	6.1	6.7	3.4	3.6	2.4	1.9	2.0	.....	2.9
16	12.6	.....	5.1	9.4	6.0	3.3	3.2	.....	1.9	1.9	2.3	2.7
17	11.6	11.4	5.1	7.5	.....	3.1	3.8	2.3	1.9	1.9	2.3	2.6
18	11.0	10.9	5.0	7.3	5.2	3.0	2.7	2.2	1.7	.....	2.3	2.5
19	.....	14.7	4.9	.....	5.9	3.1	.....	1.9	1.8	1.8	2.3	2.5
20	9.4	14.3	4.8	7.1	6.1	3.3	2.4	2.0	.....	1.8	2.2	.....
21	8.7	14.8	4.7	7.0	6.2	.....	3.6	1.9	2.0	1.8	2.2	2.8
22	8.3	.....	.....	8.3	6.4	3.5	3.5	2.0	2.5	1.8	.....	3.1
23	8.1	.....	14.3	7.8	6.0	3.5	3.0	.....	2.8	1.7	2.3	2.9
24	7.7	11.5	22.4	8.0	.....	3.6	4.2	2.7	3.5	1.7	2.3	3.0
25	7.3	10.9	26.1	14.1	4.7	7.0	3.6	2.5	2.8	.....	2.2	3.2
26	.....	12.5	28.2	.....	4.5	3.7	.....	2.5	2.4	1.7	.....	3.0
27	7.0	11.6	29.6	16.8	4.6	3.9	4.1	2.6	.....	1.7	2.2	.....
28	6.8	10.3	31.9	18.9	4.2	.....	4.6	2.7	2.3	2.1	2.2	2.8
29	6.6	9.2	.....	18.8	4.5	3.1	5.3	2.6	2.2	2.1	.....	2.6
30	6.4	.....	25.1	21.7	.....	2.9	4.1	.....	2.2	2.1	2.2	2.6
31	7.3	.....	19.0	.....	.....	.....	3.6	2.3	.....	2.5	.....	3.1

Daily gage height, in feet, of Conecuh River at Beck, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1909												
1	.....	2.2	6.4	5.9	13.0	6.7	5.5	.....	2.1	1.9	1.6	1.8
2	3.0	2.2	5.9	5.3	.....	7.1	4.8	3.9	1.9	1.9	2.0	2.0
3	.....	2.1	5.6	4.9	13.0	10.0	5.5	3.9	1.9	.....	2.9	2.1
4	2.8	2.1	5.1	.....	11.5	19.8	.....	3.9	2.1	1.7	1.9	1.8
5	2.8	2.1	4.8	4.4	10.3	22.9	.....	3.9	.....	1.6	1.7	.....
6	2.8	2.6	4.5	4.2	10.2	.....	4.9	4.9	.....	1.6	1.6	2.1
7	2.4	.....	.....	4.2	10.2	25.3	4.3	4.0	2.1	1.5	.....	2.7
8	2.4	2.3	7.1	4.6	9.0	24.3	3.9	.....	2.6	1.5	1.7	2.7
9	2.4	2.8	7.4	6.8	.....	22.5	3.6	4.0	2.2	1.5	1.6	2.7
10	.....	6.5	8.5	7.7	5.9	19.2	3.6	5.1	2.1	.....	1.6	3.1
11	2.4	7.3	8.5	.....	5.0	14.7	.....	4.8	2.1	1.7	1.5	3.0
12	2.3	7.3	9.1	6.0	4.4	10.5	3.6	4.5	.....	1.7	1.5	.....
13	2.3	8.3	9.2	7.0	4.1	.....	3.5	5.1	1.9	1.6	1.5	5.0
14	2.3	.....	.....	7.9	3.9	7.0	5.2	5.8	2.0	1.6	.....	4.0
15	2.3	.....	14.0	7.4	3.7	6.6	5.3	.....	2.0	1.6	1.6	4.1
16	2.3	19.1	15.3	6.8	.....	7.7	5.4	3.8	2.0	1.7	1.5	4.0
17	.....	17.8	14.8	6.4	3.5	8.3	5.0	3.8	2.8	.....	1.6	3.9
18	2.5	15.3	13.2	.....	3.4	8.3	.....	3.3	2.3	1.5	1.6	3.5
19	2.5	14.6	12.7	5.6	3.3	9.1	4.5	3.0	.....	1.4	1.5	.....
20	2.6	13.5	12.0	5.0	5.6	.....	4.4	3.1	2.1	1.4	1.5	3.5
21	2.5	.....	.....	4.4	4.6	9.4	4.6	3.7	2.1	1.9	.....	3.7
22	2.4	.....	9.8	4.0	5.1	10.6	4.1	.....	3.1	1.8	1.8	3.7
23	2.4	12.7	9.8	3.7	.....	10.6	3.9	2.8	3.1	1.6	1.7	3.5
24	.....	11.3	14.5	3.6	4.9	10.5	4.8	2.6	3.0	.....	1.6	3.5
25	2.3	10.4	22.4	.....	6.6	9.5	.....	2.2	3.1	1.6	.....	3.7
26	2.3	9.7	21.4	6.3	7.6	9.1	3.7	2.2	.....	1.6	1.7	.....
27	2.3	8.4	16.5	11.3	6.6	.....	3.2	2.0	3.0	1.6	1.7	3.4
28	2.3	.....	.....	10.8	6.0	6.5	3.2	2.0	2.6	1.6	.....	3.4
29	2.2	.....	9.0	10.5	8.3	6.0	3.1	.....	2.3	1.6	1.7	3.2
30	2.2	.....	7.6	9.9	.....	6.0	3.2	2.0	2.1	1.7	1.7	3.0
31	.....	.....	6.5	.....	.....	.....	3.1	2.8	.....	.....	.....	2.9
1910												
1	.....	5.6	9.8	3.2	.....	1.9	6.2	4.6	1.8	1.4	1.8	3.1
2	.....	4.9	10.7	3.0	3.3	1.9	3.8	4.4	2.0	.....	1.7	2.8
3	2.7	4.6	10.7	.....	3.1	1.9	.....	4.1	2.1	1.3	1.6	2.5
4	2.6	4.7	9.8	2.9	2.9	1.6	.....	3.8	.....	1.3	1.5	.....
5	2.6	4.3	8.6	2.8	2.8	.....	8.8	5.4	.....	1.8	1.5	2.3
6	2.6	.....	.....	3.5	2.6	3.4	8.8	4.2	1.9	2.3	.....	2.6
7	3.1	3.9	7.6	3.3	2.6	2.4	7.0	.....	1.8	2.2	2.1	2.2
8	2.9	3.7	7.1	3.6	.....	2.2	7.1	3.7	1.7	2.3	2.2	2.5
9	.....	3.6	6.7	3.5	3.2	2.9	6.5	3.0	1.8	.....	2.3	2.6
10	3.2	3.4	6.2	.....	2.9	3.0	.....	2.8	2.1	3.2	2.2	2.7
11	3.1	4.0	6.2	2.9	3.0	4.4	4.4	2.5	.....	2.9	2.1	.....
12	2.9	5.3	5.9	2.8	2.9	.....	9.5	3.0	2.9	2.5	1.9	2.4
13	2.7	.....	.....	5.9	2.8	6.6	5.2	2.7	2.8	2.3	.....	2.4
14	2.7	4.9	5.2	5.2	2.6	6.4	4.3	.....	2.3	1.9	1.8	2.4
15	2.6	4.7	5.0	3.8	.....	7.6	3.6	3.0	2.0	1.9	1.7	2.3
16	.....	4.7	4.7	3.6	2.3	6.8	3.2	3.0	1.9	.....	1.6	2.2
17	2.5	4.4	4.5	.....	2.2	5.6	.....	2.6	1.8	1.7	1.5	2.3
18	2.5	8.7	4.3	10.0	2.1	4.5	3.2	2.5	.....	1.7	1.6	.....
19	2.5	7.5	4.1	10.5	2.1	.....	4.2	2.3	1.5	1.6	2.3	3.3
20	2.4	.....	.....	11.6	2.0	3.3	4.7	2.2	1.5	1.6	.....	2.5
21	3.4	6.4	3.8	15.8	2.4	2.9	4.3	.....	1.5	1.5	2.4	2.7
22	3.0	.....	3.8	16.0	.....	5.9	4.0	3.4	1.4	1.5	2.9	2.7
23	.....	10.2	3.7	14.2	3.2	4.6	3.7	2.8	1.4	.....	3.1	2.7
24	3.3	13.7	3.6	.....	4.1	6.5	.....	2.3	1.5	1.4	.....	3.5
25	3.2	10.8	3.6	6.7	3.5	5.6	10.2	2.3	.....	1.4	2.5	.....
26	3.0	10.1	3.6	6.2	3.4	.....	10.9	2.2	1.4	1.4	2.3	3.2
27	2.9	.....	.....	5.0	3.1	4.0	11.7	2.1	1.4	1.4	.....	3.2
28	5.6	8.8	3.7	4.3	2.8	3.3	13.6	.....	1.4	2.2	3.5	3.0
29	7.7	.....	3.6	3.9	.....	3.3	10.0	1.9	1.4	1.7	2.8	2.4
30	.....	.....	3.5	3.7	.....	3.5	6.9	1.8	1.4	.....	2.9	4.8
31	6.0	.....	3.3	.....	2.1	.....	.....	1.7	.....	1.8	.....	3.8

Daily gage height, in feet, of Conecuh River at Beck, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1911												
1	.....	3.1	2.9	3.3	4.4	2.2	2.8	2.0	1.4	.....	1.4	2.5
2	.....	3.0	2.8	.....	6.0	1.95	.....	3.2	1.4	1.0	1.3	2.6
3	9.2	3.0	2.8	2.85	5.3	1.9	2.2	3.0	.....	1.0	1.3	.....
4	8.8	3.1	2.7	2.65	5.1	.....	.....	3.1	.....	.9	1.1	2.2
5	8.2	.....	.....	5.4	5.2	1.85	2.1	2.9	1.5	.9	.....	2.1
6	7.6	3.0	2.6	8.6	5.0	3.25	2.0	.....	1.5	.9	1.2	2.0
7	7.4	3.0	2.6	8.4	.....	3.05	1.9	2.7	1.6	.8	2.0	1.9
8	.....	2.9	2.6	7.4	4.8	2.7	1.7	2.6	1.8	.....	1.4	1.9
9	6.9	2.9	2.5	.....	4.0	2.75	.....	2.4	1.9	.75	1.7	1.9
10	6.4	2.9	2.4	9.6	3.45	2.5	2.1	2.0	.....	1.3	1.6	.....
11	5.6	2.9	2.5	9.6	3.05	.....	2.6	1.8	3.0	1.4	1.6	1.8
12	5.1	.....	.....	13.9	2.85	1.95	2.5	2.2	2.1	1.6	.....	1.8
13	4.7	3.5	2.4	14.2	2.7	1.85	2.2	.....	1.9	1.6	1.7	1.7
14	4.3	4.4	2.3	13.5	.....	1.7	2.0	2.8	1.6	1.5	1.7	1.7
15	.....	4.4	2.4	11.5	2.4	1.55	2.2	2.2	1.6	.....	1.6	1.7
16	3.9	4.3	2.4	.....	2.35	1.4	.....	3.2	1.5	1.4	1.6	1.8
17	3.7	4.2	2.3	8.6	2.25	1.75	4.7	3.4	.....	1.7	1.6	.....
18	3.6	3.9	2.3	7.5	2.2	.....	4.2	3.0	1.3	1.7	1.6	1.8
19	3.5	.....	.....	6.1	2.1	1.7	3.1	4.0	1.4	1.5	.....	1.9
20	3.4	5.5	2.5	8.4	2.25	1.75	3.4	.....	1.4	1.5	1.6	2.3
21	3.4	4.4	2.3	9.2	.....	1.95	4.1	3.3	1.5	1.5	1.5	3.3
22	.....	.....	2.5	7.8	2.95	1.9	4.0	3.1	1.6	.....	1.5	3.1
23	3.5	4.0	3.0	.....	2.65	2.05	.....	2.6	1.5	1.5	1.5	9.5
24	3.3	3.7	2.7	6.0	4.0	2.25	2.8	2.3	.....	1.5	1.5	.....
25	3.2	3.5	2.7	5.6	4.1	.....	2.5	2.1	1.4	1.4	1.5	6.7
26	3.2	.....	.....	5.1	4.4	1.9	2.4	2.0	1.4	1.4	.....	6.4
27	3.2	3.1	10.2	4.5	4.6	1.9	2.1	.....	1.3	1.4	1.4	6.2
28	3.3	3.0	6.5	4.4	.....	1.85	2.1	1.6	1.3	1.4	3.2	5.8
29	.....	.....	4.8	4.3	3.0	2.2	1.9	1.5	1.2	.....	2.3	5.7
30	3.2	.....	4.0	.....	.....	3.75	.....	1.5	1.1	1.4	.....	5.3
31	3.2	.....	3.6	.....	2.35	.....	1.6	1.5	.....	1.3	.....	.....
1912												
1	.....	16.3	14.1	13.1	12.2	3.1	4.2	2.2	.....	6.6	3.7	.....
2	7.8	14.8	13.3	11.9	10.9	.....	5.6	3.3	.....	6.6	3.6	4.4
3	10.7	16.4	.....	11.3	11.5	3.8	5.7	2.5	2.5	6.4	.....	4.5
4	10.8	.....	10.2	11.4	10.4	3.3	.....	.....	2.3	6.4	3.5	4.5
5	10.1	16.9	8.8	10.3	.....	3.6	5.3	4.9	2.2	6.0	3.4	7.5
6	9.3	13.3	10.5	8.7	10.5	3.3	5.6	3.7	2.2	.....	4.3	8.0
7	.....	9.8	10.3	.....	11.5	4.5	.....	2.9	2.2	5.5	18.3	8.2
8	12.5	8.0	9.3	7.0	10.6	4.7	4.6	3.0	.....	4.5	15.7	.....
9	16.3	7.1	9.2	6.3	9.2	.....	4.3	4.1	2.0	3.9	14.7	7.6
10	15.4	6.6	.....	6.1	8.3	5.0	4.1	4.0	2.0	3.4	.....	7.4
11	14.9	.....	9.0	7.8	8.0	4.5	3.9	.....	2.3	3.2	10.9	7.2
12	13.0	6.9	14.3	7.9	.....	3.9	4.2	6.0	2.3	3.0	11.5	7.0
13	10.8	6.6	13.1	8.2	7.0	3.6	4.6	6.3	2.3	.....	12.5	7.0
14	.....	7.7	12.4	.....	6.5	4.9	.....	5.9	2.4	8.9	11.9	6.4
15	10.0	10.6	17.0	7.7	5.9	4.3	3.8	4.6	.....	8.3	8.9	.....
16	9.5	11.0	18.2	7.1	5.5	.....	3.3	3.5	3.3	6.7	5.5	5.7
17	8.1	10.9	.....	13.1	5.1	4.3	3.3	3.2	3.7	5.2	.....	5.3
18	7.2	.....	22.5	13.4	4.9	3.9	3.2	.....	3.7	5.2	5.3	5.3
19	6.7	10.6	26.6	13.9	.....	3.6	3.0	3.0	4.0	9.7	5.2	5.0
20	6.1	16.0	26.5	21.1	4.5	3.3	3.3	3.7	3.9	.....	5.1	4.9
21	.....	17.0	22.4	.....	4.3	3.1	.....	5.0	4.0	8.9	5.0	4.8
22	5.3	.....	17.3	31.6	4.1	3.0	3.2	4.7	.....	7.7	4.9	.....
23	5.2	16.0	12.7	31.1	4.0	.....	3.2	4.9	4.3	7.2	4.8	7.1
24	5.0	16.6	.....	29.8	3.9	2.7	3.1	5.0	4.4	6.7	.....	11.2
25	4.8	17.8	12.4	29.6	3.8	2.6	2.8	.....	4.1	6.4	4.6	13.0
26	4.7	18.6	12.0	28.6	.....	2.5	2.6	4.0	4.4	5.9	4.5	13.0
27	4.5	17.5	12.3	28.6	3.6	2.5	2.4	4.0	5.0	.....	4.4	12.2
28	.....	15.8	12.2	.....	3.4	2.4	.....	4.0	4.2	4.9	.....	12.1
29	13.4	.....	14.8	17.0	3.4	2.5	2.2	4.2	.....	4.3	4.4	.....
30	16.2	.....	14.9	14.5	.....	.....	2.1	4.2	4.9	4.0	4.6	15.5
31	16.4	.....	.....	.....	3.2	.....	2.0	3.1	.....	3.8	.....	14.8

No discharge measurements were made in 1913.

Daily gage height, in feet, of Conecuh River at Beck, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1913												
1	.....	13.2	13.5	11.2	4.4	.....	2.6	7.2	.....	4.5	3.4	2.8
2	10.7	.....	.....	10.4	4.3	2.5	2.5	7.0	2.0	4.3	.....	2.9
3	9.6	13.3	14.0	9.8	4.1	2.4	2.9	.....	2.2	4.0	2.9	3.3
4	8.9	13.2	12.8	9.4	.....	2.5	.....	4.0	2.1	3.9	2.8	3.3
5	.....	12.7	12.1	9.4	3.9	2.5	2.7	3.6	2.1	.....	2.6	3.4
6	7.9	12.2	12.2	.....	3.8	2.7	.....	3.0	2.2	3.8	2.5	3.4
7	7.5	12.0	11.8	8.8	3.7	3.0	3.2	3.0	.....	3.6	2.7	.....
8	7.1	12.9	10.2	7.9	3.6	.....	3.1	3.0	2.0	3.4	2.7	3.4
9	6.7	.....	.....	7.1	3.8	4.2	3.2	2.8	1.9	2.9	.....	3.5
10	6.4	13.6	10.8	7.0	3.5	4.8	3.0	.....	1.9	2.7	2.8	3.4
11	6.2	11.4	11.7	12.3	.....	4.2	2.8	2.9	1.8	2.6	2.6	3.8
12	.....	9.7	12.8	11.4	4.1	4.0	2.6	2.6	1.8	.....	2.5	3.9
13	6.6	9.0	18.9	.....	3.9	4.1	.....	2.7	1.7	2.5	2.4	4.0
14	6.5	8.3	25.2	9.2	3.7	4.0	2.9	2.8	.....	2.4	2.4	.....
15	6.3	8.1	30.1	8.4	3.5	.....	2.8	2.7	5.4	2.3	2.4	3.2
16	6.2	.....	.....	8.0	3.7	3.4	2.7	2.6	9.2	2.2	.....	3.2
17	6.1	7.4	.....	7.7	4.9	3.0	2.6	.....	8.4	2.0	2.3	3.3
18	6.0	7.3	.....	7.2	.....	2.8	2.6	2.4	8.0	2.1	2.3	3.4
19	.....	7.0	39.2	6.6	3.7	2.6	2.5	2.3	7.6	.....	2.4	3.4
20	6.0	6.7	35.3	.....	3.8	2.5	.....	2.2	5.0	3.4	2.5	3.4
21	5.9	6.4	32.4	5.8	3.6	2.5	2.6	2.0	.....	3.2	2.5	.....
22	5.7	.....	26.5	5.8	3.3	.....	7.6	1.9	4.8	3.6	2.6	3.3
23	5.6	.....	.....	5.2	3.9	2.4	6.5	1.8	3.7	3.8	.....	3.4
24	5.7	9.6	23.0	5.0	3.9	2.5	6.6	.....	3.4	4.1	2.6	3.4
25	6.2	7.8	19.2	4.8	.....	2.4	3.9	1.8	3.2	4.0	2.5	.....
26	.....	7.2	15.8	5.1	3.5	2.3	3.1	1.8	3.0	.....	2.4	3.6
27	9.6	7.0	15.4	.....	3.3	2.1	.....	1.7	2.7	3.9	.....	3.6
28	11.0	11.6	14.3	4.9	3.0	2.2	7.5	1.9	.....	3.8	2.4	.....
29	11.1	.....	13.7	4.8	2.9	.....	7.7	1.9	2.4	3.6	2.3	3.6
30	10.6	.....	.....	4.6	.....	2.8	7.6	1.8	2.4	3.5	.....	3.6
31	11.3	.....	11.8	.....	2.7	.....	7.4	.....	.....	3.4	.....	3.6
1914												
1	.....	.....	.....	4.2	3.6	1.4	1.5	1.4	3.8	5.5	.....	5.8
2	3.5	4.0	7.1	4.0	3.5	1.4	1.4	.....	3.6	6.2	2.6	5.9
3	4.6	4.1	7.0	4.0	.....	1.5	1.3	1.5	3.4	6.6	2.5	5.8
4	.....	4.2	6.7	3.9	3.0	1.4	.....	1.7	3.0	.....	2.4	6.0
5	4.7	4.0	6.8	.....	3.0	1.4	.....	1.9	2.9	6.3	2.3	6.1
6	4.5	4.6	6.7	3.8	2.9	1.6	1.4	1.8	.....	6.2	2.2	.....
7	4.3	6.0	6.6	3.5	2.8	.....	1.3	1.8	3.0	5.8	2.2	5.8
8	4.0	.....	.....	3.4	3.0	2.1	2.0	2.1	3.0	5.6	.....	5.5
9	4.0	6.9	6.0	3.8	3.0	2.4	2.1	.....	2.8	5.5	2.5	5.4
10	3.9	7.8	5.8	4.0	.....	2.6	2.0	2.7	2.5	5.4	2.7	5.2
11	.....	7.6	5.5	3.9	4.1	2.3	1.4	2.8	3.0	.....	2.8	5.0
12	3.7	7.4	5.6	.....	3.5	2.0	.....	2.9	3.1	4.6	2.9	4.8
13	3.4	7.6	5.7	4.0	3.0	1.8	1.2	2.8	.....	3.5	3.0	.....
14	3.1	7.8	5.4	4.2	2.9	.....	1.3	2.8	2.0	3.4	3.2	5.1
15	3.0	.....	.....	6.2	2.8	1.5	1.4	2.8	1.9	3.4	.....	4.9
16	3.0	7.6	5.6	6.0	2.6	1.4	2.0	.....	1.8	3.6	3.6	4.8
17	2.9	7.4	6.4	5.6	.....	1.4	1.4	3.0	1.8	3.8	3.8	4.8
18	.....	7.2	6.5	5.5	2.1	1.9	1.3	3.1	2.6	.....	3.9	4.8
19	2.8	6.9	6.4	.....	2.0	1.5	.....	3.2	2.8	4.3	4.0	4.8
20	2.8	6.8	6.2	6.3	1.8	1.4	1.1	4.0	.....	4.4	3.9	.....
21	2.8	6.6	6.1	6.0	1.8	.....	1.1	3.6	2.5	4.3	3.8	4.3
22	2.7	.....	.....	5.5	1.6	1.5	1.2	4.1	2.3	4.2	.....	4.0
23	2.6	.....	5.3	5.0	1.6	1.6	1.2	.....	2.4	4.0	3.4	3.9
24	3.0	6.3	5.1	4.8	.....	1.6	1.1	4.2	4.4	3.8	3.3	3.8
25	.....	6.2	5.0	4.4	1.5	1.6	1.1	4.0	5.7	.....	3.2	3.5
26	3.6	6.6	4.7	.....	1.5	1.5	.....	3.8	5.5	3.5	.....	3.8
27	4.0	6.6	4.5	3.5	1.4	1.4	1.0	3.6	.....	3.4	3.0	.....
28	4.0	6.8	4.4	3.4	1.4	.....	1.1	3.7	5.0	3.2	3.2	4.0
29	3.9	.....	.....	3.2	1.4	1.4	1.2	3.8	4.8	3.1	.....	5.0
30	3.7	.....	4.2	3.6	.....	1.4	1.5	.....	5.4	3.0	4.3	5.4
31	3.8	.....	4.2	.....	.....	.....	1.4	3.0	.....	2.8	.....	.....

Daily gage height, in feet, of Conecuh River at Beck, Ala., for 1915.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1915									
1	.....	10.0	8.4	7.2	2.5	3.5	3.1	.....	2.0
2	6.2	10.5	8.3	7.3	.....	3.4	3.0	1.3	1.9
3	.....	11.0	8.2	7.0	2.4	3.4	3.0	1.3	1.8
4	6.4	10.4	8.0	.....	2.3	3.3	.....	3.7	2.0
5	6.3	9.8	15.5	6.5	2.4	3.4	.....	3.0	.....
6	6.5	9.8	15.0	6.3	2.5	.....	4.0	2.7	.....
7	7.0	.....	.....	6.1	2.6	4.0	4.2	2.2	5.6
8	6.8	9.6	12.6	5.8	14.4	3.2	4.5	.....	5.8
9	6.7	9.5	11.5	5.6	.....	3.0	4.8	2.1	5.8
10	.....	9.3	11.8	5.5	14.0	2.8	4.8	2.0	5.6
11	6.5	9.2	11.6	.....	12.0	2.6	.....	2.1	5.4
12	7.0	8.8	11.4	5.0	11.3	2.5	4.7	2.2	.....
13	7.1	8.5	11.1	4.6	10.0	.....	5.7	2.2	4.3
14	6.8	.....	.....	4.5	9.5	2.4	4.3	2.4	3.0
15	6.5	8.0	10.0	4.4	8.0	2.2	3.8	.....	2.8
16	6.4	8.4	9.0	4.3	.....	2.3	3.4	2.4	2.5
17	.....	8.5	8.6	4.2	6.5	2.4	3.0	2.5	2.6
18	10.4	8.6	8.0	.....	5.4	2.2	.....	2.4	2.5
19	14.0	8.4	7.4	4.0	5.0	2.2	2.8	2.3	.....
20	13.6	8.3	7.0	3.8	4.4	.....	2.5	2.4	2.4
21	13.0	.....	.....	3.8	3.9	2.1	3.0	2.6	2.4
22	13.3	.....	6.5	3.6	3.5	2.0	2.8	.....	2.2
23	14.5	8.0	6.1	3.5	.....	1.9	2.5	3.2	2.0
24	.....	8.5	6.0	3.4	3.0	1.8	2.2	3.0	1.9
25	15.6	8.4	5.8	.....	2.9	2.0	.....	2.9	1.7
26	15.4	8.2	5.4	3.0	2.8	2.1	1.6	2.8	.....
27	14.6	8.1	5.2	2.9	2.6	.....	1.6	2.6	1.5
28	12.0	.....	.....	2.8	2.5	3.2	1.6	2.5	1.4
29	11.0	.....	5.0	2.8	2.4	3.0	1.4	.....	1.4
30	10.6	.....	4.9	2.6	.....	3.6	1.7	2.3	2.0
31	.....	.....	7.0	.....	.....	.....	1.4	2.2	.....

Note.—At present all stream flow computations by the United States Geological Survey are prepared for the climatic year ending September 30. The year 1916 will begin with October 1, 1915, thus including three months of 1915.

Rating table for Conecuh River at Beck, Ala., for 1904, 1905 and 1906.

Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.
Feet.	Sec.-feet.	Feet.	Sec.-feet.	Feet.	Sec.-feet.	Feet.	Sec.-ft.
0.70	187	2.30	470	3.80	1,065	5.60	1,970
0.80	197	2.40	500	3.90	1,110	5.80	2,080
0.90	208	2.50	530	4.00	1,555	6.00	2,190
1.00	220	2.60	565	4.10	1,200	6.20	2,315
1.10	233	2.70	600	4.20	1,245	6.40	2,445
1.20	247	2.80	640	4.30	1,290	6.60	2,575
1.30	262	2.90	680	4.40	1,340	6.80	2,705
1.40	278	3.00	720	4.50	1,390	7.00	2,840
1.50	295	3.10	760	4.60	1,440	8.00	3,560
1.60	313	3.20	800	4.70	1,490	9.00	4,360
1.70	332	3.30	840	4.80	1,540	10.00	5,200
1.80	352	3.40	885	4.90	1,590	11.00	6,100
1.90	373	3.50	930	5.00	1,640	12.00	7,050
2.00	395	3.60	975	5.20	1,750	13.00	8,000
2.10	418	3.70	1,020	5.40	1,860	14.00	9,000
2.20	443						

The above table is based on discharge measurements made during 1904-6. It is well defined between gage heights 1.2 feet and 5 feet. Above 6 feet the table is uncertain. High-water estimates are rough approximations.

Rating table for Conecuh River at Beck, Ala., for 1907 and 1908.

Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.
Feet.	*Sec.-ft.*	*Feet.*	*Sec.-ft.*	*Feet.*	*Sec.-ft.*	*Feet.*	*Sec.-ft.*
1.60	300	3.50	920	5.80	2,030	15.00	7,090
1.70	325	3.60	960	6.00	2,140	16.00	7,640
1.80	350	3.70	1,000	6.20	2,250	17.00	8,190
1.90	375	3.80	1,045	6.40	2,360	18.00	8,740
2.00	400	3.90	1,090	6.60	2,470	19.00	9,290
2.10	430	4.00	1,135	6.80	2,580	20.00	9,840
2.20	460	4.10	1,180	7.00	2,690	21.00	10,390
2.30	490	4.20	1,225	7.20	2,800	22.00	10,940
2.40	520	4.30	1,270	7.40	2,910	23.00	11,490
2.50	550	4.40	1,320	7.60	3,020	24.00	12,040
2.60	585	4.50	1,370	7.80	3,130	25.00	12,590
2.70	620	4.60	1,420	8.00	3,240	26.00	13,140
2.80	655	4.70	1,470	9.00	3,790	27.00	13,690
2.90	690	4.80	1,520	10.00	4,340	28.00	14,240
3.00	725	4.90	1,570	11.00	4,890	29.00	14,790
3.10	760	5.00	1,620	12.00	5,440	30.00	15,340
3.20	800	5.20	1,720	13.00	5,990	31.00	15,890
3.30	840	5.40	1,820	14.00	6,540	32.00	16,440
3.40	880	5.60	1,920				

Note.—The above table is not applicable for obstructed-channel conditions. It is based on 18 discharge measurements made during 1904-1908 and is well defined betwten gage heights 1.2 feet and 16 feet.

Daily gage height, in feet, of Conecuh River at Beck, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1909												
1	727	456	2,270	2,000	5,950	2,430	1,780	884	430	280	315	357
2	694	456	2,000	1,680	5,950	2,640	1,440	1,040	280	280	404	404
3	662	430	1,820	1,490	5,950	4,250	1,780	1,040	380	358	662	430
4	630	430	1,880	1,380	5,100	9,830	1,670	1,040	430	335	280	357
5	630	430	1,440	1,260	4,420	11,600	1,550	1,040	430	315	335	304
6	630	568	1,300	1,170	4,360	12,300	1,440	1,490	430	315	315	430
7	510	525	1,970	1,170	4,360	13,000	1,210	1,080	430	295	325	398
8	510	482	2,640	1,350	3,690	12,400	1,040	1,080	568	295	335	398
9	510	630	2,810	2,480	2,840	11,400	919	1,080	456	295	315	568
10	510	2,320	3,410	2,970	2,000	9,490	919	1,590	430	315	315	728
11	510	2,750	3,410	2,670	1,540	6,920	919	1,440	430	335	295	694
12	482	2,750	3,750	2,370	1,260	4,530	919	1,300	405	335	295	1,120
13	482	3,300	3,800	2,590	1,130	3,560	879	1,590	380	315	295	1,540
14	482	5,340	5,160	3,080	1,040	2,590	1,640	1,940	404	315	305	1,080
15	482	7,390	6,520	2,810	959	2,370	1,680	1,470	404	315	315	1,130
16	482	9,430	7,260	2,480	919	2,970	1,730	1,000	404	335	295	1,080
17	510	8,090	6,980	2,270	879	3,200	1,640	1,000	630	315	315	1,040
18	538	7,260	6,040	2,050	839	3,200	1,430	801	482	295	315	879
19	538	6,860	5,780	1,830	801	2,750	1,300	694	456	277	295	879
20	568	6,240	5,380	1,540	1,830	3,830	1,260	728	430	277	295	879
21	538	6,090	4,760	1,260	1,350	3,910	1,350	959	430	380	326	989
22	510	5,940	4,140	1,080	1,860	4,880	1,130	794	728	357	357	989
23	510	5,780	4,140	959	1,540	4,560	1,040	630	728	315	335	879
24	496	4,980	6,800	919	1,490	4,530	1,440	568	694	315	315	879
25	482	4,470	11,300	1,560	2,370	3,970	1,200	456	728	315	325	989
26	482	4,680	10,700	2,210	2,910	3,750	969	456	711	315	335	899
27	482	3,350	7,940	4,980	2,370	3,040	764	404	694	315	335	839
28	482	2,810	5,820	4,700	2,050	2,320	764	404	568	315	335	839
29	456	.....	3,690	4,530	3,300	2,050	728	404	482	315	335	764
30	456	.....	2,910	4,190	3,010	2,050	764	404	430	335	335	694
31	456	.....	2,320	.....	2,720	.....	729	630	.....	325	.....	662
1910												
1	585	1,830	4,140	757	873	373	2,160	1,350	352	278	352	720
2	585	1,490	4,640	684	795	373	996	1,260	395	270	332	617
3	585	1,350	4,640	667	720	373	1,960	1,120	418	262	313	524
4	554	1,400	4,140	650	650	313	2,720	996	403	262	295	496
5	554	1,210	3,470	617	617	574	3,580	1,730	388	352	295	469
6	554	1,120	3,190	874	554	834	3,580	1,170	373	469	356	554
7	720	1,040	2,910	795	554	496	2,590	1,060	352	443	418	443
8	650	955	2,640	914	656	443	2,040	955	332	469	443	524
9	704	914	2,430	874	757	650	2,320	684	352	613	469	554
10	757	834	2,160	762	650	684	1,790	617	418	757	443	585
11	720	1,080	2,160	650	684	1,200	1,260	524	534	650	418	540
12	680	1,680	2,000	617	650	1,820	3,970	684	650	524	373	496
13	585	1,580	1,820	2,000	617	2,370	1,640	585	617	469	362	496
14	585	1,490	1,640	1,640	554	2,270	1,210	534	469	373	352	496
15	554	1,400	1,540	996	512	2,910	914	684	395	373	332	469
16	539	1,400	1,400	914	469	2,480	757	684	373	352	313	443
17	524	1,260	1,300	2,580	443	1,830	757	554	352	332	295	469
18	524	3,520	1,210	4,250	418	1,200	757	524	324	332	313	633
19	524	2,860	1,120	4,530	418	1,050	1,170	469	295	313	469	795
20	496	2,560	1,060	5,150	395	795	1,400	443	295	313	482	524
21	524	2,270	996	7,550	496	650	1,210	638	295	295	496	585
22	684	3,320	996	7,660	626	2,000	1,080	834	278	295	650	588
23	740	4,360	955	6,630	757	1,350	955	617	278	286	720	585
24	795	6,350	914	4,530	1,120	2,320	2,660	469	295	278	622	874
25	757	4,700	914	2,430	874	1,830	4,360	469	286	278	524	816
26	684	4,310	914	2,160	834	1,460	4,750	443	278	278	469	757
27	650	3,840	934	1,540	720	1,080	5,210	418	278	278	672	757
28	1,830	3,580	955	1,210	617	796	6,200	396	278	443	874	684
29	2,970	.....	914	1,040	551	795	4,890	373	278	332	617	617
30	2,510	.....	874	955	484	874	2,540	352	278	443	650	1,200
31	2,050	.....	795	.....	418	.....	1,940	332	.....	352	.....	996

NOTE.—These discharges were obtained from a rating curve which is fairly well defined below 7,000 second-feet. Discharges interpolated for days when gage was not read.

Daily discharge, in second-feet, of Conecuh River at Beck, Ala.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1911												
1	1,930	720	650	795	1,260	443	617	395	278	226	278	534
2	2,870	684	617	714	2,050	384	830	757	278	220	262	554
3	3,800	684	617	634	1,680	373	443	684	284	220	262	496
4	3,580	720	585	570	1,390	368	430	720	290	208	238	443
5	3,240	702	570	1,730	1,640	362	418	650	295	208	240	418
6	2,910	684	554	3,470	1,540	776	395	618	295	208	247	395
7	2,810	684	554	3,350	1,490	702	373	585	313	197	395	373
8	2,680	650	554	2,810	1,440	585	332	554	352	194	278	373
9	2,540	650	524	3,420	1,080	601	375	496	373	192	332	373
10	2,270	650	496	4,030	854	524	418	395	528	262	313	362
11	1,830	660	524	4,030	702	454	554	352	684	278	313	352
12	1,590	762	510	6,460	634	384	524	443	418	313	322	352
13	1,400	874	496	6,630	585	362	443	530	373	313	332	332
14	1,210	1,260	469	6,240	540	332	395	617	813	295	332	332
15	1,120	1,260	496	5,100	496	304	443	443	313	286	313	332
16	1,040	1,210	496	4,280	482	278	922	757	295	278	313	352
17	955	1,170	469	3,470	456	342	1,400	834	278	332	313	352
18	914	1,040	469	2,860	443	337	1,170	684	262	332	313	352
19	874	1,410	496	2,100	418	332	720	1,080	278	295	313	373
20	834	1,780	524	3,350	456	342	834	938	278	295	313	469
21	834	1,260	469	3,800	562	384	1,120	795	295	295	295	795
22	854	1,170	524	3,020	667	373	1,080	720	313	295	295	720
23	874	1,080	684	2,540	570	406	648	554	295	295	295	3,970
24	795	945	585	2,050	1,080	456	617	469	286	295	295	3,200
25	757	874	585	1,830	1,120	414	524	418	278	278	295	2,430
26	757	797	2,470	1,590	1,260	373	496	395	278	278	286	2,270
27	757	720	4,360	1,300	1,350	373	418	354	262	278	278	2,160
28	795	684	2,320	1,260	1,020	362	418	313	262	278	757	1,940
29	776	.....	1,440	1,210	684	443	373	295	247	278	469	1,890
30	757	.....	1,080	1,240	583	976	343	295	233	278	496	1,680
31	757	.....	914	.....	482	.....	313	295	.....	262	.....	2,130
1912												
1	2,570	7,830	6,580	6,010	5,490	720	1,170	443	655	2,370	955	1,300
2	3,020	6,980	6,120	5,320	4,750	858	1,830	795	589	2,370	914	1,260
3	4,640	7,890	5,240	4,980	5,100	996	1,890	524	524	2,270	894	1,300
4	4,700	8,030	4,860	5,040	4,470	795	1,780	1,010	469	2,270	874	1,300
5	4,310	8,170	3,580	4,420	4,500	914	1,680	1,490	443	2,050	834	2,860
6	3,860	6,120	4,530	3,520	4,530	795	1,830	955	443	1,920	1,210	3,130
7	4,760	4,140	4,420	3,060	5,100	1,300	1,590	650	443	1,780	8,970	3,240
8	5,660	3,130	3,860	2,590	4,590	1,400	1,350	684	419	1,300	7,490	3,080
9	7,830	2,640	3,800	2,210	3,800	1,470	1,210	1,120	395	1,040	6,920	2,910
10	7,820	2,370	3,740	2,100	3,300	1,540	1,120	1,080	395	834	5,840	2,810
11	7,030	2,460	3,690	3,020	3,130	1,300	1,040	1,560	469	757	4,750	2,700
12	5,950	2,540	6,690	3,080	2,860	1,040	1,170	2,050	469	684	5,100	2,590
13	4,700	2,870	6,010	3,240	2,590	914	1,350	2,210	469	2,160	5,660	2,590
14	4,480	2,970	5,610	3,100	2,320	1,490	1,170	2,000	496	3,630	5,320	2,270
15	4,250	4,590	8,230	2,970	2,000	1,210	996	1,350	646	3,300	3,630	2,080
16	3,970	4,810	8,910	2,640	1,780	1,210	795	874	795	2,430	1,780	1,890
17	3,190	4,750	10,200	6,010	1,590	1,210	795	757	955	1,640	1,730	1,680
18	2,700	4,670	11,400	6,180	1,490	1,040	757	720	955	1,640	1,680	1,680
19	2,430	4,590	13,700	6,460	1,400	914	684	684	1,080	4,080	1,640	1,540
20	2,100	7,660	13,600	10,600	1,300	795	795	955	1,040	3,860	1,590	1,490
21	1,890	8,280	11,300	13,600	1,210	720	776	1,540	1,080	3,630	1,540	1,440
22	1,680	7,940	8,400	16,600	1,120	684	757	1,400	1,140	2,970	1,490	2,040
23	1,640	7,660	5,880	16,300	1,080	634	757	1,490	1,210	2,700	1,440	2,640
24	1,540	8,000	5,740	15,500	1,040	585	720	1,540	1,260	2,430	1,400	4,920
25	1,440	8,690	5,610	15,400	996	554	617	1,310	1,120	2,270	1,350	5,950
26	1,400	9,140	5,380	14,800	955	524	554	1,080	1,260	2,000	1,300	5,950
27	1,300	8,520	5,550	14,800	914	524	496	1,080	1,540	1,750	1,260	5,490
28	3,740	7,550	5,490	11,500	834	496	470	1,080	1,170	1,490	1,260	5,440
29	6,180	7,060	6,980	8,230	834	524	443	1,170	1,330	1,210	1,260	6,410
30	7,770	.....	7,030	6,800	796	847	418	1,170	1,490	1,080	1,350	7,380
31	7,890	.....	6,520	.....	757	.....	895	720	.....	996	.....	6,980

Discharge interpolated for days when gage was not read.

Note.—Daily discharge computed from a rating curve fairly well defined below 7,000 second-feet.

Daily discharge, in second-feet, of Conecuh River at Beck, Ala., for 1913.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1913												
1	5,810	6,060	6,240	4,920	1,260	554	554	2,700	380	1,300	834	617
2	4,640	6,200	7,000	4,470	1,210	524	524	2,500	395	1,210	742	650
3	4,020	6,120	6,520	4,140	1,120	496	650	1,840	443	1,080	650	795
4	3,630	6,060	5,840	3,910	1,080	524	618	1,050	418	1,040	617	795
5	3,360	5,880	5,440	3,910	1,040	524	585	914	418	1,020	554	834
6	3,080	5,490	5,490	3,600	996	585	671	684	443	996	524	834
7	2,860	5,380	5,270	3,300	955	684	757	684	419	914	585	834
8	2,640	5 890	4,360	3,080	914	927	720	684	395	834	585	834
9	2,480	6,500	4,580	2,640	996	1,170	757	617	373	650	601	874
10	2,270	6,290	4,700	2,590	874	1,440	684	634	373	585	617	834
11	2,160	5,040	5,210	5,550	997	1,170	617	650	352	554	554	996
12	2,260	4,080	5,840	5,040	1,120	1,080	554	554	352	539	524	1,040
13	2,370	3,690	9,310	4,420	1,040	1,120	602	585	332	524	496	1,060
14	2,320	3,300	12,900	3,800	953	1,080	650	617	1,030	496	496	918
15	2,210	3,190	15,700	3,350	874	957	617	585	1,730	469	496	757
16	2,160	3,000	18,500	3,130	755	834	585	554	3,800	443	482	757
17	2,100	2,810	21,000	2,970	1,490	684	554	525	3,350	395	469	795
18	2,050	2,750	26,000	2,700	1,220	617	554	496	3,130	418	469	834
19	2,050	2,580	20,000	2,370	955	554	524	469	2,910	626	496	834
20	2,050	2,430	18,700	2,160	996	524	539	443	1,540	834	524	834
21	2,000	2,270	17,000	1,940	914	524	554	395	1,490	757	524	814
22	1,890	4,000	13,600	1,680	795	510	2,910	3.3	1,440	914	554	795
23	1,830	6,000	12,600	1,640	1,040	496	2,320	352	655	996	554	834
24	1,890	4,030	11,600	1,540	1,040	524	2,370	352	834	1,120	554	834
25	2,160	3,020	9,480	1,440	957	496	3,630	352	757	1,080	524	874
26	3,100	2,700	7,550	1,590	874	469	3,190	352	684	1,060	496	914
27	4,030	2,590	7,320	1,540	795	418	3,020	332	585	1,040	496	914
28	4,810	5,150	6,690	1,490	684	443	2,860	373	540	996	496	914
29	4,870	.....	6,350	1,440	650	530	2,970	373	496	914	469	914
30	4,590	.....	5,810	1,350	618	617	2,910	352	496	874	543	914
31	4,980	.....	5,270	.....	585	.....	2,810	366	.....	834	.....	914

NOTE.—Daily discharge determined from a rating curve well defined below 7,000 second-feet. For days when the gage was not read discharge was estimated from a hydrograph comparison with the flow of Pea River at Pera, Ala., or interpolated. As no measurements have been made since 1911, estimates of daily discharge should be used with caution.

Monthly discharge of Conecuh River at Beck, Ala., for 1904 and 1905.

Month.	Discharge in second-feet.			Run-off.	
	Minimum.	Maximum.	Mean.	Sec.-feet per square mile.	Depth in inches.
1904					
August 24-31	2,025	680	1,176	0.912	0.271
September	1,832	220	454	.352	.393
October	262	187	210	.163	.188
November	362	197	282	.219	.244
December	1,340	295	601	.466	.537
1905					
January	2,080	530	1,123	.871	1.00
February	13,050	800	5,537	4.29	4.47
March	2,190	1,065	1,698	1.32	1.52
April	2,790	582	1,221	.947	1.06
May	2,080	406	873	.677	.780
June	1,490	295	556	.431	.481
July	720	247	377	.292	.337
August	1,590	342	780	.605	.698
September	406	226	309	.240	.268
October	975	233	411	.319	.368
November	600	.270	371	.288	.321
December	4,830	395	2,181	1.69	1.95
The year	13,050	226	1,286	.997	13.25

Monthly discharge of Conecuh River at Beck, Ala.—Continued.

[Drainage area, 1,290 square miles.]

Month.	Discharge in second-feet.				Run-off (depth in inches on drainage area).
	Maximum.	Minimum.	Mean.	Per square mile.	
1906					
January	5,560	1,590	2,940	2.28	2.63
February	4,200	1,240	2,260	1.75	1.82
March	6,280	1,750	3,620	2.81	3.24
April	3,190	530	1,530	1.19	1.33
May	3,050	443	1,260	.977	1.13
June	800	295	453	.351	.39
July	3,340	343	1,420	1.10	1.27
August	2,980	313	711	.551	.64
September	11,500	278	1,680	1.30	1.45
October	12,600	720	3,760	2.91	3.36
November	1,750	530	974	.755	.84
December	3,800	640	955	.740	.85
The year	12,600	278	1,800	1.39	18.95
1907					
January	3,020	980	1,540	1.19	1.37
February	1,920	960	1,200	.930	.97
March	5,720	880	3,120	2.42	2.79
April	6,870	920	2,880	2.23	2.49
May	6,320	1,620	3,290	2.55	2.94
June	1,570	490	738	.572	.64
July	1,980	520	1,100	.853	.98
August	5,880	550	1,850	1.43	1.65
September	1,980	460	871	.675	.75
October	1,670	400	703	.545	.63
November	5,330	430	1,620	1.26	1.41
December	12,600	2,470	5,920	4.59	5.29
The year	12,600	400	2,070	1.60	21.91
1908.					
January	11,800	2,360	6,310	4.89	5.64
February	12,500	3,900	6,530	5.29	5.70
March	16,400	1,470	5,270	4.09	4.72
April	10,900	2,080	4,240	3.29	3.67
May	11,600	1,220	3,810	2.95	3.40
June	2,690	690	1,070	.829	.92
July	1,770	520	993	.770	.89
August	920	375	613	.475	.55
September	920	325	495	.384	.43
October	550	300	383	.297	.34
November	1,090	460	574	.445	.50
December	800	460	589	.457	.53
The year	16,400	300	2,600	2.01	27.29
1909					
January	720	456	530	0.411	0.47
February	9,430	430	3,720	2.88	3.00
March	11,300	1,300	4,510	3.50	4.04
April	4,980	919	2,230	1.73	1.93
May	5,950	801	2,600	2.02	2.33
June	13,000	2,050	5,360	4.16	4.64
July	1,780	728	1,220	.946	1.09
August	1,940	404	950	.736	.85
September	728	380	499	.387	.43
October	380	295	323	.250	.29
November	662	295	335	.260	.29
December	1,540	357	792	.614	.71
The year	13,000	295	1,920	1.49	20.07

Note.—Discharge is interpolated for days when gage height was not recorded.

Monthly discharge of Conecuh River at Beck, Ala.—Continued.

[Drainage area, 1,290 square miles.]

Month.	Discharge in second-feet.				Run-off (depth in inches on drainage area.
	Maximum.	Minimum.	Mean.	Per square mile.	
1910					
January	2,970	496	853	0.661	0.76
February	6,350	834	2,280	1.77	1.84
March	4,640	795	1,980	1.50	1.73
April	7,660	617	2,220	1.72	1.92
May	1,120	395	629	.488	.56
June	2,910	818	1,210	.938	1.05
July	6,290	757	2,380	1.84	2.12
August	1,730	332	712	.552	.64
September	650	278	364	.282	.31
October	757	262	376	.291	.34
November	874	295	457	.354	.40
December	1,260	443	625	.484	.56
The year	7,660	262	1,160	.899	12.28
1911					
January	3,800	757	1,580	1.22	1.41
February	1,780	650	921	.714	.74
March	4,360	469	842	.653	.75
April	6,630	570	2,860	2.22	2.48
May	2,050	418	942	.730	.84
June	976	278	438	.340	.38
July	1,400	318	590	.457	.53
August	1,080	295	562	.436	.50
September	684	233	318	.247	.28
October	332	192	267	.207	.24
November	757	233	326	.253	.28
December	3,970	332	1,000	.775	.89
The year	6,630	192	887	.688	9.32
1912					
January	7,890	1,300	4,060	3.15	3.63
February	9,140	2,370	5,910	4.58	4.94
March	13,700	3,580	6,710	5.20	6.00
April	16,600	2,100	7,340	5.69	6.35
May	5,490	757	2,470	1.91	2.20
June	1,540	496	933	.723	.81
July	1,890	395	1,010	.783	.90
August	2,210	443	1,140	.884	1.02
September	1,540	395	825	.640	.71
October	4,080	684	2,090	1.62	1.87
November	8,970	834	2,710	2.10	2.34
December	7,380	1,260	3,170	2.46	2.84
The year	16,600	395	3,190	2.47	33.61
1913					
January	5,810	1,330	2,990	2.32	2.68
February	6,500	2,270	4,380	3.40	3.54
March	26,000	4,360	10,100	7.83	9.03
April	5,550	1,350	2,920	2.26	2.52
May	1,490	585	968	.750	.86
June	1,440	418	702	.544	.61
July	3,630	524	1,350	1.05	1.21
August	2,700	332	706	.547	.63
September	3,800	332	1,030	.798	.89
October	1,300	395	823	.638	.74
November	834	469	551	.427	.48
December	1,080	617	851	.660	.76
The year	26,000	332	2,270	.176	23.95

Mobile River Drainage Basin.

DESCRIPTION.

The Mobile River system drains about two-thirds of the State of Alabama and large areas in Georgia and Mississippi. Its basin is triangular in shape and is nearly 300 miles wide near the headwaters in Georgia, Alabama, and Mississippi. It is designated the Mobile basin because its waters enter the Gulf of Mexico through Mobile River, which is formed by the union of Alabama and Tombigbee rivers at a point near the coast.

The main stream of Alabama River branch has many names. Beginning at the headwaters it is Cartecay River, which with Ellijay River makes the Coosawattee. This with Connasauga River forms Oostanaula River, and at Rome, Ga., the Oostanaula and the Etowah rivers unite to form Coosa River. Six miles above Montgomery, Ala., Tallapoosa River joins the Coosa and forms Alabama River. Cahaba River is a tributary of the Alabama and joins it about 10 miles below Selma. Hillabee Creek flows into Tallapoosa River just above Sturdevant. Talladega and Choccolocco creeks are tributaries of the Coosa.

Tombigbee River rises in the northeastern part of Mississippi and enters Alabama in Pickens County. Its principal tributary is the Black Warrior, which is formed by the junction of Mulberry Fork and Sipsey Fork. Locust Fork enters the Black Warrior some distance below the junction.

The mean annual rainfall is about 50 inches.

Coosa and Tallapoosa rivers and their tributaries are important water-power streams, and offer many exceptionally good locations for development.

The following gaging stations in Alabama, or being related to Alabama water powers, have been maintained in this river basin:

Coosa River, Rome, Ga., 1897-1903.
Coosa River, Riverside, Ala., 1896-1915.
Alabama River, Selma, Ala., 1900-1913.
Choccolocco Creek at Jenifer, Ala., 1903-1908.
Talladega Creek at Nottingham, Ala., 1900-1904.
Tallapoosa River at Sturdevant, Ala., 1900-1915.
Tallapoosa River near Susanna, Ala., 1900-1901.
Tallapoosa River at Milstead, Ala., 1897-1901.
Little Tallapoosa River, near Wedowee, Ala., 1913-1914.
Hillabee Creek near Alexander City, Ala., 1900-1903.
Big Sandy Creek near Dadeville, Ala., 1900-1901.
Cahaba River at Centerville, Ala., 1901-1908.
Tombigbee River at Columbus, Miss., 1905-1912.
Tombigbee River at Epes, Ala., 1900-1913.

Black Warrior River near Cordova, Ala., 1900-1912.
Black Warrior River near Coal, Ala., 1908-1910.
Black Warrior River at Tuscaloosa, Ala., 1889-1905.
Clear Creek near Elk, Ala., 1904-5.
Locust Fork of Black Warrior River at Palos, Ala., 1901-1905.
Village Creek near Mulga, Ala., 1909.
Camp Branch near Ensley, Ala., 1908-1910.
Venison Branch near Mulga, Ala., 1908-1909.

COOSA RIVER AT ROME, GA.

Location.—Oostanaula and Etowah rivers unite at Rome, Ga., to make Coosa River. These two rivers are measured separately and the gage is on Oostanaula River at the Fifth Avenue bridge, a short distance above the junction.

Records available.—January 1, 1897, to December 31, 1903.

Drainage area.—4,006 square miles.

Gage.—Vertical staff attached to bridge pier. The datum has not been changed.

Channel.—In two parts. Etowah and Oostanaula rivers above junction.

Discharge measurements.—Made from Second Avenue bridge on Etowah River and Fifth Avenue Bridge on Oostanaula River.

Artificial control.—None.

Accuracy.—The gage probably does not correctly indicate the flow of Coosa river at times of unequal stage in Etowah River and Oostanaula River, and for this reason the accuracy was not thought to be sufficiently good to continue this station.

Discharge measurements of Coosa River at Rome, Ga.

Date.	Gage height.	Discharge.
1896	Feet.	Sec.-feet.
September 29	0.20	1,209
1897		
May 7	2.75	4,646
October 5	.15	990
1898		
May 11	1.90	2,946
September 17	2.60	3,913
October 11	5.05	8,324
October 22	4.10	6,489
November 30	3.90	6,039
1899		
January 25	3.80	6,540
January 25	3.60	5,932
May 19	2.75	4,394
June 16	2.40	3,352
August 4	1.45	2,835
October 13	.60	1,769
1900		
February 21	4.80	8,115
May 19	2.30	4,496
1900	Feet.	Sec.-feet.
September 13	0.90	1,992
December 8	3.73	6,066
1901		
January 23	3.60	6,454
April 5	9.90	16,692
June 22	3.70	6,030
October 15	3.15	5,388
1902		
June 24	1.30	2,483
October 8	.80	1,800
November 8	1.10	2,332
1903		
March 14	9.70	16,146
June 5	12.55	25,008
July 1	2.80	5,305
July 8	2.70	4,653
July 18	2.85	4,408
September 4	.90	2,211
November 28	.75	1,892

Daily gage height, in feet, of Coosa River at Rome, Ga.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1897.												
1	1.0	2.8	3.3	7.1	4.1	1.8	1.7	0.8	1.0	0.0	0.5	1.1
2	1.0	9.7	3.2	7.5	4.0	2.3	1.9	.7	.5	.0	.9	1.0
3	1.0	11.5	3.1	8.2	3.5	2.0	1.0	1.2	.3	.0	1.0	1.2
4	1.0	9.6	3.3	9.4	3.3	3.0	.9	1.0	.5	.1	1.0	2.3
5	1.0	8.2	3.5	14.8	3.0	2.4	2.0	.8	.4	.1	1.0	3.2
6	1.3	6.2	7.6	18.9	3.0	2.0	1.9	.8	.3	.1	.8	3.7
7	1.1	5.0	19.7	17 0	3.0	2.0	1.9	1.9	.3	.1	.8	3.2
8	1.1	4.3	18.9	14.7	2.8	2.0	3.0	2.0	.2	.1	.8	2.2.
9	1.0	5.0	15.4	12.1	2.6	2.0	2.1	2.0	.1	.1	.8	1.9
10	1.0	4.4	13.5	9.6	2.6	1.9	1.9	1.6	.0	.1	.7	1.7
11	.9	4.5	12.0	7.2	2.6	1.9	2.5	2.4	.0	.1	.7	1.5
12	.9	7.4	11.5	6.2	3.0	1.9	2.8	1.8	.0	1.1	.7	1.4
13	.9	8.7	18.6	5.8	3.4	1.8	2.0	1.3	.0	1.6	.7	1.3
14	2.8	7.2	21.3	5.0	4.0	1.7	1.6	.8	.0	1.3	.6	2.2
15	6.2	5.5	23.8	6.0	5.0	1.7	1.3	.6	.0	1.0	.6	4.0
16	5.0	4.5	23.4	7.4	4.0	2.0	1.0	.6	.0	.8	.6	3.5
17	3.5	4.0	22.6	7.0	3.3	2.8	5.2	2.1	.0	.7	.6	2.5
18	3.9	3.7	21.4	5.0	2.8	2.3	4.2	3.2	.1	.6	.6	2.2
19	5.0	3.4	19.7	4.5	2.7	2.0	4.8	2.4	.2	.6	.6	1.8
20	3.6	3.0	18.9	4.0	2.6	1.8	8.8	1.4	.2	.6	.6	1.7
21	8.7	4.0	17.7	3.8	2.5	1.6	12.8	1.3	.2	1.5	.6	3.2
22	9.5	3.9	15.8	3.7	2.4	1.5	7.3	1.5	.2	1.3	.5	4.1
23	5.7	5.6	13.7	3.5	2.4	1.5	4.4	1.5	.2	1.0	.5	5.8
24	4.0	11.7	12.9	3.5	2.4	1.4	3.9	1.5	.2	.8	.5	5.8
25	3.5	8.6	9.1	3.5	2.8	1.3	2.6	1.1	.3	.8	.5	3.7
26	3.0	6.7	6.0	3.5	2.2	1.2	2.6	.8	.3	.7	.5	2.8
27	2.5	4.7	5.2	3.4	2.1	1.2	3.8	.5	.4	.7	.5	3.0
28	2.5	3.5	4.8	3.4	2.0	1.0	3.0	.4	.4	.7	.9	2.8
29	2.5	.....	4.5	3.4	2.0	1.1	2.4	.4	.4	.6	1.1	2.8
30	2.3	.....	4.2	3.2	1.9	2.0	1.4	.4	.4	.5	1.1	2.0
31	2.2	.....	4.0	.....	1.9	.....	1.2	.5	.....	.5	.....	2.0
1898.												
1	1.5	3.6	1.2	9.0	2.8	1.4	1.2	4.8	2.0	2 0	2 2	4.2
2	1.8	3.1	1.2	6.1	2.6	1.4	1.0	4.4	7.8	2.0	2.2	4.0
3	1.7	2.8	1.2	4.2	2.4	1.4	1.0	3.2	21.7	2.0	2.2	3.8
4	1.7	2.6	1.2	3.6	2.3	1.4	1.0	4.4	24.3	4.9	2.2	3.8
5	1.6	2.4	1.2	9.9	2.2	1.3	1.0	8.0	22.2	22 0	2.0	4.3
6	1.6	2.2	1.2	17.2	2.1	1.3	1.3	5.6	20.0	23.8	2.2	5.0
7	1.3	2.0	1.2	14.5	2.0	1.3	2.0	4.4	17.6	19.0	2.6	4.3
8	1.3	1.8	1.2	10.9	2.0	1.3	2.8	4.4	16.4	18.4	2.4	4.0
9	1.3	1.8	1 2	7.0	2.0	1.3	3.2	3.4	9.7	16.6	2.3	3.7
10	1.3	1.7	1.2	4.1	2.0	1.3	1.7	3.0	5.0	14.0	2.1	3.4
11	1.4	1.5	1.2	4.0	2.0	1.3	2.8	9.9	5.4	5.6	2.0	3.3
12	2.0	1.5	1.2	3.8	1.9	1.2	2.0	7.2	4.6	4.2	2.0	3.3
13	4.0	1.3	1.2	3.6	1.8	1.4	1.8	4.2	3.8	3.8	2 0	3.2
14	4.0	1.3	1.3	3.5	1.8	1.8	1.6	3.4	3.2	3.7	2.3	3.0
15	3.8	1.3	1.6	3.5	1.7	1.8	3.7	3.0	3.0	3.5	2.3	3 0
16	3.6	1.3	3.7	3.4	1.6	1.7	3.7	2.5	2.9	3.2	2.9	2.8
17	3.6	1.2	7.3	3.0	1.5	1.8	2.2	2.0	2.7	3.1	2.9	2.7
18	3.2	1.2	5.8	3.0	1.5	1.8	1.9	2.2	2.5	6.5	4.0	2.6
19	2.8	1.2	3.7	3.0	1.5	2.2	1.7	2.2	2.3	9.0	5.0	2.6
20	4.4	1.2	3.0	3.6	1.4	3.6	1.6	3.2	2.2	6.0	4.5	2.6
21	6.5	1.2	2.5	3.6	1.4	3.2	1.5	2.8	2.2	4.2	5.0	2.8
22	6.4	1.2	2.5	3.2	1.4	3.0	1.4	3.9	2.3	3.9	4.0	2.9
23	5.0	1.2	2 3	3.0	1.4	2.8	1.3	2.2	2.6	4.0	5.0	3.2
24	4.5	1.2	2.2	7.2	1.4	2.6	1.8	2.2	4.1	3.9	7.0	3.6
25	7.0	1.2	2.1	8.2	1.4	2.0	3.7	1.9	3.1	3.5	4.7	3.0
26	14.0	1.2	2 0	6.0	1.4	1.8	3.8	2.7	3.0	3.3	3.9	2.9
27	14.6	1.2	1.9	4.6	1 4	1.8	2.9	4.0	2.7	3.1	4.5	2.7
28	11.6	1.2	1.8	4.0	1.4	1.8	3.7	4.4	2.5	3.0	4.3	2.6
29	8.6	.....	2.0	3.7	1.4	1.6	4.2	3.4	2.3	2.8	4.3	2.5
30	4.6	.....	8.5	3.2	1.4	1.4	4.1	2.0	2.1	2.6	3.9	2.4
31	3.9	.....	11.4	.....	1.4	.....	4.2	2.3	.....	2.4	.....	2.4

Daily gage height, in feet, of Coosa River at Rome, Ga.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1899.												
1	3.0	6.9	19.7	13.2	4.0	3.0	1.7	2.2	3.4	.4	.7	1.1
2	3.4	7.8	15.0	10.6	3.7	2.6	1.5	1.9	2.0	.3	.6	1.1
3	3.0	6.0	8.6	7.9	3.7	2.6	1.0	1.7	1.6	.3	.5	1.5
4	2.7	9.2	6.6	7.2	3.5	2.0	.9	1.5	1.4	.3	.5	1.3
5	2.6	15.3	7.8	9.5	3.5	2.0	2.0	1.4	1.3	.3	.4	1.1
6	2.6	16.2	9.0	8.2	3.5	2.0	1.9	1.5	1.3	.5	.4	1.0
7	3.6	27.8	8.0	8.2	3.7	2.0	1.9	1.6	1.2	.7	.3	.9
8	5.9	24.0	6.8	15.0	3.7	1.9	3.0	1.5	1.0	.7	.3	.8
9	5.9	22.4	5.7	13.4	3.6	1.8	2.1	1.8	1.0	.8	.3	.8
10	4.9	21.0	5.4	11.2	3.5	1.8	1.9	1.6	1.0	.6	.3	.8
11	4.0	19.0	5.2	9.5	3.3	1.8	2.5	1.4	2.9	1.0	.3	.8
12	4.5	16.5	4.9	7.0	3.1	2.2	2.8	1.4	2.3	.9	.3	2.8
13	4.0	7.0	4.5	6.4	3.1	3.8	2.0	1.2	1.5	.7	.3	6.1
14	3.8	5.0	6.0	5.9	3.0	4.0	1.6	1.1	1.0	.7	.4	5.0
15	3.6	5.0	16.6	5.6	3.0	3.5	1.3	1.3	.9	.6	.4	3.2
16	3.6	5.5	27.7	5.4	2.9	2.5	1.8	1.9	.8	.6	.5	2.0
17	4.0	8.9	29.2	5.2	2.8	2.1	5.2	1.6	.6	.6	.9	1.8
18	4.2	9.5	25.8	4.8	2.8	2.0	4.2	1.4	.6	.6	.7	1.7
19	4.0	8.5	24.9	4.7	2.8	2.0	4.8	1.1	.6	.6	.5	1.3
20	3.7	7.7	26.2	4.6	2.8	2.0	8.8	.9	.7	.6	.6	1.6
21	3.8	6.8	24.6	4.3	2.6	1.8	12.8	.9	.7	.7	.5	2.0
22	3.2	6.9	23.0	4.1	2.6	2.2	7.9	.8	.6	.7	.4	2.0
23	3.1	7.3	22.6	4.0	2.4	1.7	4.8	.8	.6	.6	1.0	1.9
24	3.5	6.6	21.9	5.4	2.6	1.7	3.9	.7	.5	.5	2.1	7.2
25	3.8	5.8	18.0	7.4	2.5	1.7	2.6	.7	.5	.4	1.5	7.5
26	3.8	5.5	10.5	9.1	2.4	1.7	2.6	.7	.6	.4	2.5	5.0
27	3.3	19.1	7.7	6.7	2.2	2.1	3.8	2.5	.5	.4	3.0	3.5
28	3.0	23.4	6.8	5.5	2.2	1.9	3.0	2.5	.6	.4	2.2	3.0
29	3.0	.....	8.8	4.8	2.0	1.9	2.4	2.5	.5	.4	1.9	3.0
30	2.9	.....	9.3	4.2	2.0	1.8	1.4	2.0	.4	.5	1.4	3.4
31	4.4	.....	10.2	.....	3.3	.....	1.2	2.5	.....	.8	.....	2.0
1900												
1	2.0	2.0	4.2	4.4	6.2	2.4	10.5	3.4	1.5	1.2	2.1	3.2
2	1.6	1.8	5.8	4.2	4.8	2.5	8.0	3.2	1.5	1.2	2.2	2.8
3	1.5	1.6	5.6	4.0	4.0	2.8	8.0	3.0	1.7	1.0	2.0	2.6
4	1.5	2.0	4.4	4.0	4.0	4.2	7.0	2.8	1.7	1.0	2.3	3.5
5	1.5	3.0	4.1	4.0	3.8	4.2	5.5	2.6	1.5	.9	2.3	7.4
6	1.5	3.8	3.8	4.0	3.7	4.2	4.2	2.5	1.5	.9	2.1	6.8
7	1.5	2.8	5.0	3.8	3.6	4.8	3.8	2.2	1.4	.9	2.1	5.2
8	1.5	2.4	8.2	3.8	3.4	13.0	3.8	2.2	1.0	3.8	2.0	3.8
9	1.5	4.0	15.0	3.6	3.0	12.6	4.0	2.0	1.0	5.9	1.9	3.6
10	1.5	6.9	13.4	3.5	3.0	8.0	4.9	2.0	.8	2.6	1.8	3.2
11	2.0	7.0	10.3	6.0	3.0	5.9	3.8	1.8	.8	2.0	1.8	2.8
12	7.0	6.4	7.5	11.0	3.0	5.0	3.4	1.8	.8	1.8	1.6	2.6
13	9.0	22.6	5.5	7.4	2.5	5.2	3.8	1.8	.8	2.5	1.5	2.6
14	7.2	27.2	4.8	5.5	2.4	5.3	3.4	1.7	.8	3.2	1.5	2.4
15	5.5	25.3	4.2	4.5	2.4	4.2	3.4	2.0	6.5	3.0	1.5	2.2
16	3.5	21.2	5.3	5.6	2.4	3.8	3.3	1.7	11.1	2.0	1.5	2.2
17	3.0	18.0	5.6	6.2	2.4	4.8	3.1	1.6	7.0	1.6	1.5	2.2
18	2.9	10.7	4.5	11.0	2.4	6.0	3.0	1.8	3.2	1.5	1.4	2.0
19	5.0	5.0	5.2	11.1	2.9	6.5	2.8	2.2	2.3	1.5	1.4	2.0
20	11.3	4.0	15.9	11.4	3.0	7.2	2.6	2.0	2.0	1.4	1.6	2.8
21	10.6	4.1	17.5	13.6	2.6	4.2	2.5	1.6	1.8	1.8	1.8	6.7
22	8.5	6.8	14.6	12.7	2.5	3.6	2.4	1.6	1.8	1.8	2.1	8.0
23	5.8	7.6	10.4	10.5	2.3	5.5	2.4	1.6	1.6	1.6	2.1	7.0
24	4.0	6.0	7.2	8.6	2.9	14.2	2.4	1.9	1.6	1.6	2.0	6.6
25	3.4	5.8	6.8	8.5	3.2	16.2	3.6	2.4	1.5	1.5	5.0	6.6
26	3.1	5.2	13.0	6.5	2.7	17.0	2.8	2.0	1.5	1.5	11.0	5.6
27	2.8	4.6	12.1	5.3	2.6	15.5	6.2	1.8	1.4	1.4	11.5	4.0
28	2.6	4.0	8.9	4.8	2.5	15.6	6.8	1.6	1.4	2.2	8.6	3.8
29	2.4	.....	5.8	4.3	2.4	14.2	6.2	1.5	1.8	2.2	7.0	3.6
30	2.1	.....	5.7	6.0	2.9	10.0	4.5	1.5	1.3	2.1	4.0	3.5
31	2.0	.....	5.3	.....	3.0	.....	4.0	1.5	.....	2.1	.....	5.6

Daily gage height, in feet, of Coosa River at Rome, Ga.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1901.												
1	7.4	6.4	3.0	8.8	4.0	10.6	3.6	1.8	6.4	2.6	1.2	1.8
2	6.4	5.8	3.0	8.6	3.8	7.6	3.0	1.8	5.8	2.6	1.2	1.8
3	5.2	5.5	3.0	13.0	3.8	5.6	3.0	1.8	3.7	3.2	1.2	1.3
4	4.2	15.8	3.0	13.0	3.8	6.4	2.6	1.6	3.4	3.0	1.2	1.5
5	4.0	18.5	3.0	10.0	3.6	5.0	2.4	1.6	3.0	2.8	1.2	2.0
6	3.8	13.8	3.0	7.9	3.5	4.0	2.2	2.6	2.9	2.2	1.2	1.8
7	3.5	9.5	3.0	6.4	3.5	7.0	5.2	5.3	2.6	2.0	1.2	1.8
8	3.2	6.5	3.0	5.6	3.4	7.6	4.8	5.9	2.2	1.9	1.1	1.8
9	3.0	9.6	2.8	5.2	3.3	5.4	3.3	3.0	2.0	1.9	1.1	1.8
10	2.8	12.5	5.5	4.5	3.1	4.3	2.6	2.6	2.0	1.8	1.1	1.8
11	8.8	10.5	7.8	4.3	3.0	4.0	2.4	2.5	2.0	1.7	1.0	2.6
12	23.5	7.6	8.0	4.2	2.9	3.8	2.3	3.4	2.0	1.6	1.0	2.6
13	27.0	6.5	6.7	4.3	2.8	3.8	2.0	3.0	1.8	1.8	1.0	2.1
14	23.8	5.6	4.8	10.4	2.8	4.0	2.0	2.3	2.0	2.0	1.0	2.2
15	21.4	5.0	4.0	10.1	2.7	4.3	2.0	4.5	3.0	3.2	1.0	16.4
16	19.8	4.8	3.6	7.7	2.6	6.9	1.9	7.2	2.4	2.6	1.0	17.6
17	17.4	4.2	3.2	5.8	2.6	6.0	1.7	10.5	6.0	2.4	1.0	14.7
18	8.9	4.2	3.0	5.2	2.5	5.0	5.5	9.8	11.2	2.4	1.0	14.0
19	5.0	4.2	3.0	9.0	2.5	4.8	3.0	10.8	11.1	2.0	1.0	13.0
20	4.0	4.0	3.0	18.6	3.0	4.0	3.0	12.5	7.0	1.8	1.0	5.6
21	3.8	3.8	3.0	17.2	10.0	3.8	2.4	10.8	3.9	1.8	1.6	3.0
22	3.8	3.7	3.0	15.5	23.6	3.6	2.4	14.5	3.7	1.6	1.2	2.0
23	3.8	3.6	3.0	14.6	26.4	3.6	2.4	20.8	3.3	1.6	1.4	2.0
24	3.8	3.6	3.6	12.7	21.8	3.6	2.0	23.4	2.8	1.6	1.4	3.6
25	6.7	3.5	3.6	6.8	18.9	2.7	2.0	18.3	2.6	1.6	1.3	4.0
26	6.6	3.2	22.0	5.6	16.5	2.7	1.9	13.1	2.5	1.4	1.3	3.7
27	5.4	3.2	27.0	4.8	11.1	3.2	1.7	6.6	2.3	1.3	1.3	5.7
28	5.2	3.0	24.5	4.4	5.5	3.0	2.8	8.8	2.0	1.3	1.3	6.0
29	5.0	.....	21.3	4.2	4.9	3.6	1.9	7.5	2.0	1.3	1.3	21.5
30	4.6	.....	19.2	4.1	4.7	3.6	1.9	6.2	2.5	1.3	1.3	29.8
31	6.3	.....	16.1	.....	5.4	.....	1.8	5.6	...	1.2	..	32.6
1902.												
1	28.00	11.80	28.50	21.30	2.90	1.80	1.00	1.20	1.00	1.60	.20	1.90
2	24.60	22.00	27.60	14.80	2.90	1.70	1.00	1.00	.80	1.60	.20	2.00
3	21.90	24.00	24.10	7.20	3.70	1.70	1.10	.80	1.20	1.60	.20	6.20
4	17.60	20.00	21.60	5.80	3.40	1.70	1.00	.80	1.00	1.50	.20	6.80
5	6.60	15.60	19.20	5.70	3.20	1.70	.90	1.50	1.20	1.00	.20	5.80
6	5.60	9.80	14.00	5.20	3.00	1.70	.90	1.40	1.00	2.00	.40	5.00
7	4.60	6.30	10.10	6.70	2.90	1.70	1.00	1.20	.80	1.40	2.00	4.00
8	4.20	5.70	8.70	6.70	2.80	1.70	.90	1.20	.60	.90	1.60	2.70
9	4.00	5.00	7.20	7.70	2.60	2.00	.90	.60	.90	.80	1.00	2.50
10	3.90	4.60	7.00	6.60	2.60	1.90	.90	.40	1.00	.70	.80	1.90
11	3.80	4.40	6.60	5.60	2.50	1.90	.90	.30	.90	2.30	.80	1.60
12	3.50	4.00	6.00	5.00	2.40	1.80	1.40	.30	.70	2.20	.70	1.40
13	3.40	3.90	5.60	4.70	2.30	1.70	1.50	1.00	.60	2.20	.60	1.20
14	3.20	3.80	5.50	4.50	2.30	1.70	1.80	.60	2.50	2.00	.60	1.20
15	3.00	3.80	5.00	4.40	2.30	1.60	1.40	.60	1.90	1.80	.60	1.10
16	2.80	4.00	7.00	4.30	2.40	1.60	2.00	.80	1.00	1.60	.60	2.40
17	2.70	4.50	14.00	4.60	2.50	1.60	1.40	.60	.70	1.50	.60	4.30
18	2.70	4.70	11.60	5.70	2.30	1.50	1.20	.50	.40	1.30	.90	4.50
19	3.00	4.50	8.60	5.00	2.30	1.50	1.00	.40	.40	1.10	1.50	3.80
20	3.20	4.00	6.20	4.00	2.40	1.90	1.00	1.00	.40	.90	1.30	3.00
21	3.60	4.00	5.60	3.90	2.40	1.60	.90	1.30	1.00	.80	1.10	4.90
22	4.20	5.00	5.10	3.80	2.30	1.80	.80	1.00	.80	.70	1.10	5.80
23	5.00	5.60	5.00	3.70	2.30	1.50	.80	.90	.60	.60	1.00	6.80
24	4.00	5.30	4.70	3.50	2.10	1.30	.70	.70	.30	.50	.90	6.20
25	3.90	5.00	4.70	3.30	2.00	1.30	.60	.50	2.20	.40	1.60	3.80
26	3.60	5.50	4.60	3.20	2.00	1.20	.50	.50	4.00	.30	3.10	3.00
27	3.60	5.50	4.20	3.20	2.00	1.20	.50	.60	3.30	.20	4.80	2.60
28	4.20	22.70	5.00	3.00	1.80	1.10	.50	1.20	2.00	.40	3.80	2.20
29	6.50	.....	20.60	3.00	1.80	1.00	.70	1.70	2.00	.40	2.40	2.20
30	5.80	.....	28.90	2.90	1.80	1.00	2.00	1.00	1.80	.30	2.20	2.60
31	5.40	.....	26.80	.....	1.80	.....	1.60	1.00	.....	.30	.....	4.00

Daily gage height, in feet, of Coosa River at Rome, Ga., for 1903.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1903												
1	3.0	2.8	28.6	24.9	3.6	6.0	3.0	2.8	1.0	.4	.7	.9
2	3.9	2.8	27.1	22.0	3.6	7.7	3.2	2.6	.9	.4	.7	.9
3	3.9	4.2	24.0	19.5	3.6	9.0	2.9	3.0	.9	.4	.8	.8
4	5.0	8.4	22.3	14.6	3.5	7.5	2.7	3.3	.9	.3	1.5	.7
5	4.3	13.2	20.5	8.0	3.5	11.7	2.6	3.2	.8	.3	1.8	.7
6	4.0	13.4	15.4	7.0	3.3	17.1	2.6	6.2	.7	.3	2.0	.7
7	3.7	9.7	9.9	6.4	3.4	11.7	2.6	4.6	.7	.2	2.0	.7
8	3.0	18.7	7.7	7.7	3.5	6.9	2.4	3.6	.6	.5	1.6	.7
9	2.8	21.6	6.6	10.5	3.5	5.3	2.6	3.4	.6	1.4	1.4	.7
10	2.4	16.5	10.5	8.4	3.4	4.4	2.6	3.0	.6	1.6	1.3	.7
11	3.0	15.1	11.6	6.7	3.3	4.3	2.5	2.6	.6	1.5	1.2	.7
12	5.0	21.8	16.0	6.3	3.3	6.0	2.9	2.2	.6	1.4	1.2	.6
13	5.0	19.6	14.0	5.6	3.0	4.6	5.9	2.0	.6	1.3	1.2	.6
14	4.8	14.5	10.1	14.8	3.0	4.2	11.1	2.0	.6	1.1	1.2	.6
15	3.9	11.1	9.4	18.0	3.1	4.0	6.7	1.6	.6	.9	1.0	.6
16	2.5	8.7	7.8	9.5	3.3	3.8	3.7	4.3	.9	.8	1.0	.6
17	2.4	24.7	6.8	7.4	3.0	3.4	3.5	3.2	1.7	1.2	1.0	.6
18	2.4	28.7	6.3	6.2	3.0	3.0	3.3	2.8	2.0	1.3	1.0	.6
19	2.4	25.5	5.7	5.3	2.8	2.4	3.0	2.2	1.5	1.2	1.5	.6
20	2.4	21.0	5.3	5.7	2.5	2.7	2.9	2.1	1.2	1.0	1.4	.6
21	2.2	15.2	11.0	5.8	2.5	2.5	2.5	2.0	.9	.8	1.3	.7
22	2.0	7.1	11.6	5.5	2.6	2.4	2.4	2.0	.8	.8	1.2	1.3
23	2.0	5.8	16.9	4.9	2.6	2.2	3.0	1.9	.7	.7	1.1	1.3
24	2.0	5.1	22.6	4.7	2.5	2.2	3.0	1.8	.5	.7	1.0	1.0
25	2.0	4.8	20.6	4.4	2.5	2.2	2.6	1.6	.5	.7	1.0	.9
26	2.0	4.5	16.0	4.9	2.3	2.2	2.4	1.5	.5	.6	1.0	.9
27	2.0	4.0	9.7	4.7	2.1	2.4	2.1	1.4	.5	.6	1.0	.9
28	2.4	23.1	6.9	4.0	2.0	6.8	2.0	1.4	.5	.5	.9	.9
29	3.2	.....	7.8	3.9	2.0	6.8	1.8	1.3	.4	.4	.9	.9
30	4.2	.....	22.5	3.7	2.4	4.0	2.3	1.3	.4	.4	.9	.9
31	3.8	.....	27.6	.....	6.7	.....	2.6	1.2	.....	.7	.....	.8

Rating table for Coosa River at Rome, Ga., for 1897 and 1898.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
—0.15	990	2.0	3,060	4.1	6,495	7.4	12,930
.0	1,070	2.1	3,190	4.2	6,690	7.6	13,320
.1	1,140	2.2	3,320	4.3	6,885	7.8	13,710
.2	1,210	2.3	3,460	4.4	7,080	8.0	14,100
.3	1,280	2.4	3,610	4.5	7,275	8.2	14,490
.4	1,360	2.5	3,760	4.6	7,470	8.4	14,880
.5	1,440	2.6	3,910	4.7	7,665	8.6	15,270
.6	1,520	2.7	4,060	4.8	7,860	8.8	15,660
.7	1,610	2.8	4,220	4.9	8,055	9.0	16,050
.8	1,700	2.9	4,380	5.0	8,250	10.0	18,000
.9	1,800	3.0	4,540	5.2	8,640	11.0	19,950
1.0	1,900	3.1	4,700	5.4	9,030	12.0	21,900
1.1	2,000	3.2	4,860	5.6	9,420	13.0	23,850
1.2	2,110	3.3	5,020	5.8	9,810	14.0	25,800
1.3	2,220	3.4	5,180	6.0	10,200	15.0	27,750
1.4	2,330	3.5	5,340	6.2	10,590	16.0	29,700
1.5	2,450	3.6	5,520	6.4	10,980	17.0	31,650
1.6	2,570	3.7	5,715	6.6	11,370	18.0	33,600
1.7	2,690	3.8	5,910	6.8	11,760	20.0	37,500
1.8	2,810	3.9	6,105	7.0	12,150	22.0	41,400
1.9	2,930	4.0	6,300	7.2	12,540	24.0	45,300

Rating table for Coosa River at Rome, Ga., for 1899.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
1.0	2,030	3.0	4,700	5.0	8,710	12.0	22,780
1.1	2,124	3.1	4,900	5.2	9,112	13.0	24,790
1.2	2,218	3.2	5,100	5.4	9,514	14.0	26,800
1.3	2,312	3.3	5,300	5.6	9,916	15.0	28,810
1.4	2,406	3.4	5,500	5.8	10,318	16.0	30,820
1.5	2,500	3.5	5,700	6.0	10,720	17.0	32,830
1.6	2,620	3.6	5,900	6.2	11,122	18.0	34,840
1.7	2,740	3.7	6,100	6.4	11,524	19.0	36,850
1.8	2,860	3.8	6,300	6.6	11,926	20.0	38,860
1.9	2,980	3.9	6,500	6.8	12,328	21.0	40,870
2.0	3,100	4.0	6,700	7.0	12,730	22.0	42,880
2.1	3,260	4.1	6,901	7.2	13,132	23.0	44,890
2.2	3,420	4.2	7,102	7.4	13,534	24.0	46,900
2.3	3,580	4.3	7,303	7.6	13,936	25.0	48,910
2.4	3,740	4.4	7,504	7.8	14,338	26.0	50,920
2.5	3,900	4.5	7,705	8.0	14,740	27.0	52,930
2.6	4,060	4.6	7,906	9.0	16,750	28.0	54,940
2.7	4,220	4.7	8,107	10.0	18,760	29.0	56,950
2.8	4,380	4.8	8,308	11.0	20,770	30.0	58,960
2.9	4,540	4.9	8,509				

Rating table for Coosa River at Rome, Ga., for 1900, 1901 and 1902.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
0.8	1,930	1.6	2,850	2.3	3,850	3.0	4,900
.9	2,020	1.7	2,985	2.4	4,000	3.1	5,065
1.0	2,110	1.8	3,120	2.5	4,150	3.2	5,230
1.1	2,230	1.9	3,260	2.6	4,300	3.3	5,405
1.2	2,350	2.0	3,400	2.7	4,450	3.4	5,580
1.3	2,475	2.1	3,550	2.8	4,600	3.5	5,755
1.4	2,600	2.2	3,700	2.9	4,750	3.6	5,930
1.5	2,725						

Rating table for Coosa River at Rome, Ga., for 1903.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
0.20	1,280	1.50	2,920	2.70	4,645	3.90	6,580
.30	1,390	1.60	3,060	2.80	4,795	4.00	6,760
.40	1,510	1.70	3,200	2.90	4,945	4.10	6,950
.50	1,630	1.80	3,340	3.00	5,095	4.20	7,140
.60	1,750	1.90	3,480	3.10	5,250	4.30	7,330
.70	1,880	2.00	3,620	3.20	5,405	4.40	7,520
.80	2,010	2.10	3,765	3.30	5,565	4.50	7,710
.90	2,140	2.20	3,910	3.40	5,725	4.60	7,910
1.00	2,270	2.30	4,055	3.50	5,890	4.70	8,110
1.10	2,400	2.40	4,200	3.60	6,055	4.80	8,310
1.20	2,530	2.50	4,345	3.70	6,225	4.90	8,510
1.30	2,660	2.60	4,495	3.80	6,400	5.00	8,710
1.40	2,790						

Above 3.6 feet gage height the rating for 1900-1902 is the same as for 1899. Use 1902 table above 5 feet.

Estimated monthly discharge of Coosa River at Rome, Ga.

[Drainage area, 4,006 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-feet per sq. mile.	Depth in inches.
1897					
January	17,025	1,800	4,820	1.20	1.38
February	20,925	4,220	10,100	2.52	2.62
March	44,910	4,700	22,537	5.63	6.49
April	35,150	4,860	12,304	3.07	3.43
May	8,250	2,930	4,421	1.10	1.27
June	4,540	1,900	2,884	.72	.80
July	23,460	1,800	5,184	1.30	1.50
August	4,860	1,360	2,256	.56	.64
September	1,900	900	1,106	.28	.31
October	2,570	1,010	1,518	.38	.44
November	2,000	1,440	1,626	.41	.46
December	9,810	1,900	4,806	1.02	1.18
The year	44,910	900	6,070	1.52	20.52
1898					
January	26,970	2,220	7,272	1.82	2.10
February	5,520	2,110	2,705	.68	.71
March	20,780	2,110	4,384	1.10	1.27
April	32,040	4,540	9,480	2.36	2.63
May	4,220	2,330	2,778	.69	.79
June	5,520	2,110	2,866	.72	.80
July	6,690	1,900	3,670	9.17	10.59
August	17,805	2,930	6,079	1.52	1.75
September	45,885	3,060	12,114	3.03	2.26
October	44,910	3,060	11,830	2.96	3.41
November	12,150	3,060	5,213	1.30	1.45
December	8,250	3,610	4,996	1.25	1.44
The year	45,885	1,900	6,111	2.22	29.20
1899					
January	10,519	4,060	6,092	1.52	1.75
February	54,538	8,710	22,536	5.62	5.85
March	57,352	7,705	26,314	6.57	7.57
April	28,810	6,700	13,333	3.33	3.72
May	6,700	3,100	4,783	1.19	1.37
June	6,700	2,740	3,489	.87	.97
July	24,388	1,950	5,499	1.37	1.58
August	3,900	1,790	2,595	.65	.75
September	5,500	1,550	2,219	.55	.61
October	2,030	1,470	1,684	.42	.48
November	4,700	1,470	2,009	.50	.56
December	13,735	1,870	4,814	1.08	1.25
The year	57,352	1,470	7,906	1.97	26.46
1900					
January	21,378	2,725	6,854	1.71	1.97
February	53,382	2,850	14,736	3.68	3.83
March	33,835	6,300	14,714	3.67	4.23
April	25,996	5,755	12,050	3.01	3.36
May	11,122	3,850	5,129	1.28	1.48
June	35,242	4,000	14,154	3.53	3.94
July	19,765	4,000	7,589	1.89	2.18
August	5,580	2,725	3,488	.87	1.00
September	20,971	1,930	3,960	.99	1.10
October	10,519	2,010	3,408	.85	.98
November	21,775	2,600	5,438	1.36	1.52
December	14,740	3,400	7,096	1.77	2.04
The year	53,382	1,930	8,218	2.05	27.73

Estimated monthly discharge of Coosa River at Rome, Ga.—Continued.
[Drainage area, 4,006 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-feet per sq. mile.	Depth in inches.
1901					
January	52,930	4,600	15,450	3.86	4.45
February	35,845	4,900	12,186	3.04	3.17
March	52,930	4,600	13,406	3.34	3.85
April	36,046	6,901	15,578	3.88	4.33
May	51,724	4,150	12,533	3.12	3.60
June	19,966	4,450	8,316	2.08	2.32
July	9,715	2,850	4,441	1.10	1.27
August	45,292	2,850	13,780	3.44	3.97
September	21,172	3,120	6,389	1.59	1.77
October	5,230	2,350	3,414	.85	.98
November	2,850	2,110	2,316	.58	.65
December	64,186	2,475	13,428	3.35	3.86
The year	64,186	2,110	10,103	2.52	34.22
1902					
January	54,940	4,450	11,816	2.95	3.40
February	46,900	6,300	14,812	3.70	3.85
March	56,749	7,102	21,944	5.48	6.32
April	41,473	4,750	10,015	2.50	2.79
May	6,115	3,120	4,089	1.02	1.18
June	3,400	2,110	2,836	.71	.79
July	3,400	1,685	2,214	.55	.63
August	2,985	1,480	1,998	.50	.58
September	6,700	1,480	2,505	.63	.70
October	3,850	1,410	2,346	.59	.68
November	8,308	1,410	2,572	.64	.71
December	12,328	2,225	5,885	1.47	1.69
The year	56,749	1,410	6,920	1.73	23.32
1903					
January	8,710	3,620	5,442	1.36	1.57
February	56,347	4,795	25,376	6.34	6.60
March	56,146	9,313	27,111	6.78	7.82
April	48,709	6,225	15,788	3.95	4.41
May	12,127	3,620	5,278	1.32	1.52
June	33,031	3,910	9,594	2.40	2.68
July	20,971	3,340	5,616	1.40	1.61
August	11,122	2,530	4,472	1.12	1.29
September	3,620	1,510	2,002	.50	.56
October	3,060	1,280	2,002	.50	.58
November	3,620	1,880	2,512	.63	.70
December	2,660	1,750	1,985	.50	.58
The year	56,347	1,280	8,932	2.23	29.92

COOSA RIVER AT RIVERSIDE, ALA.

Location.—At the Southern Railway bridge at Riverside, Ala., 1 mile above the mouth of Blue Eye Creek and about 7 miles above Choccolocco Creek.

Records available.—September 25, 1896, to September 30, 1915.

Drainage area.—7,060 square miles.

Gage.—Standard chain gage attached to the right-bank end of the downstream side of the railroad bridge. The original wire gage was located on the downstream side of the bridge near the middle of the river. The gage datum has not been changed since the station was established.

Channel.—For a part of the width the current is broken by a ledge above. Both banks are high and do not overflow, and the bed of the stream is rocky and permanent.

Discharge measurements.—Made from the downstream side of the railroad bridge.

Artificial control.—The flow is not noticeably affected by artificial control at the comparatively few dams above.

Discharge measurements of Coosa River at Riverside, Ala.

Date.	Gage height. Feet.	Discharge. Sec.-feet.
1896		
September 8	0.70	1,630
September 25	.50	1,408
October 30	.88	1,986
December 21	1.57	3,272
1897		
March 31	4.58	12,515
June 17	1.54	3,747
July 21	5.55	16,925
August 20	2.58	6,174
November 29	.80	1,854
1898		
January 27	10.00	30,359
March 9	1.60	3,538
May 3	3.22	7,758
May 25	1.39	3,172
August 3	3.92	9,524
September 7	11.05	37,811
October 19	6.80	14,484
November 22	5.85	16,884
1899		
April 26	9.00	29,069
May 3	4.05	10,592
May 20	2.70	6,276
June 14	2.20	5,010
August 26	1.42	3,791
September 28	1.00	2,457
November 7	0.85	2,271
December 9	1.20	2,727
1900		
February 10	5.03	13,493
March 21	12.50	43,759
May 5	4.15	11,196
August 21	2.32	5,609
December 28	4.25	11,335
1901		
January 8	3.35	9,572
March 18	3.70	9,333
August 24	12.95	44,554
November 14	1.70	4,039
1902		
April 8	7.30	21,138
June 3	2.00	4,720
October 17	2.30	5,128
1903		
March 16	10.75	40,072
April 11	8.80	30,710
June 20	2.87	7,374
July 22	2.30	5,549
August 26	1.64	4,001
October 1	1.05	2,687
November 13	1.37	3,186
1904		
January 19	1.38	3,999
February 11	4.10	10,880
May 26	1.25	2,714
June 27	1.15	2,582
August 23	1.45	3,174
September 20	.60	1,681
September 21	.53	1,557
November 2	.38	1,250
1905		
February 28	7.75	28,320
February 28	7.20	21,150
August 11	2.75	6,483
September 25	1.14	2,642
November 29	1.51	3,256
1906		
March 29	12.40	44,200
March 29	12.45	44,700
March 30	12.10	43,300
April 19	4.16	11,100
June 21	4.03	10,300
August 30	3.78	9,780
October 24	4.77	12,800
1907		
October 28	1.29	2,890
1909		
January 19	9.58	32,200
August 17	3.36	7,840
1910		
July 28	3.68	9,460
July 29	3.49	8,920
1911		
August 28	1.10	2,480

Daily gage height, in feet, of Coosa River at Riverside, Ala.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1896.												
1										0.60	1.10	1.30
2										1.75	1.40	2.10
3										3.10	1.20	4.38
4										2.75	1.10	3.80
5										2.00	1.05	3.20
6										1.50	1.10	2.50
7										1.20	1.20	2.20
8										.85	2.55	1.90
9										.70	2.30	1.70
10										.60	1.90	1.60
11										.65	1.30	1.55
12										.60	1.60	1.65
13										.60	2.25	1.60
14										.60	2.70	1.60
15										.55	4.00	1.80
16										.55	5.20	2.00
17										.55	4.70	2.10
18										.65	4.20	2.20
19										.80	3.20	2.00
20										.85	2.30	1.80
21										.75	1.50	1.70
22										.70	1.40	1.50
23										.60	1.35	1.45
24										.55	1.30	1.40
25										.60	1.25	1.35
26										.70	1.20	1.30
27									0.45	.80	1.15	1.25
28									.45	.85	1.15	1.20
29									.45	.90	1.10	1.10
30									.50	.96	1.20	1.10
31										.85		1.10
1897.												
1	1.10	2.00	5.00	4.30	3.40	1.90	1.45	2.00	1.20	.50	.70	.80
2	1.10	2.50	4.50	4.45	3.10	1.90	1.45	1.80	1.10	.50	.70	.90
3	1.10	5.35	4.25	5.20	3.05	1.90	1.40	1.60	1.30	.50	.70	.95
4	1.10	7.35	3.90	7.00	3.60	1.85	1.40	1.50	1.60	.50	.65	1.20
5	1.10	7.70	4.20	8.60	3.20	1.85	1.45	1.45	1.30	.45	.80	2.50
6	1.20	7.90	5.80	9.50	3.00	1.80	1.50	1.40	1.20	.45	1.05	3.00
7	1.25	9.00	11.40	10.50	3.80	1.90	1.50	1.50	1.10	.45	1.15	2.90
8	1.30	7.70	13.30	11.15	3.70	2.15	2.40	1.50	1.00	.45	1.10	2.40
9	1.35	6.40	12.55	12.15	2.65	2.10	2.30	1.60	.90	.45	1.00	2.15
10	1.35	5.90	12.65	11.90	2.60	1.90	2.05	1.70	.85	.45	.95	2.00
11	1.35	5.20	12.70	10.70	2.50	1.90	2.50	1.70	.80	.40	.85	1.70
12	1.30	7.35	12.80	9.10	2.55	2.00	2.70	2.00	.80	.40	.85	1.60
13	1.40	8.30	13.45	7.30	2.65	1.90	2.50	2.50	.75	.45	.85	1.60
14	2.00	8.20	14.80	6.05	2.10	1.85	2.00	2.30	.75	.45	.85	2.00
15	3.50	7.50	14.60	5.60	3.90	1.60	1.80	2.00	.80	1.45	.80	2.50
16	4.00	6.60	14.80	5.30	4.00	1.70	1.70	1.80	.85	1.65	.75	3.00
17	4.90	5.70	14.70	5.60	4.00	1.50	1.80	1.60	.85	1.40	.70	3.30
18	5.35	5.00	14.70	5.40	3.60	1.60	1.95	1.50	.80	1.35	.70	3.15
19	5.00	4.50	14.50	5.00	3.20	1.90	2.40	1.90	.80	1.20	.70	2.65
20	4.80	4.00	15.30	4.60	3.00	2.00	3.00	2.60	.75	1.00	.65	2.10
21	6.50	4.60	14.90	4.30	2.70	1.80	5.20	2.00	.75	.90	.65	2.20
22	7.00	4.65	14.70	4.00	2.35	1.70	6.40	1.70	.70	.85	.65	2.80
23	7.35	6.00	14.50	3.80	2.30	1.60	8.00	1.60	.70	.80	.65	4.20
24	7.00	7.90	13.70	3.60	2.25	1.55	6.20	1.70	.70	.70	.65	4.85
25	5.40	9.00	12.20	3.40	2.25	1.50	4.50	1.75	.65	.80	.65	4.95
26	4.70	9.00	10.60	3.30	2.15	1.45	4.00	1.60	.65	.75	.66	4.55
27	3.80	8.00	8.50	3.25	2.05	1.45	3.00	1.60	.60	.60	.65	3.85
28	3.00	6.20	6.50	2.20	2.00	1.40	2.60	1.50	.55	.65	.65	3.20
29	2.70	.....	5.30	3.10	2.00	1.45	2.50	1.40	.55	.80	.70	2.95
30	2.50	.....	4.90	3.20	1.95	1.45	3.00	1.35	.55	.75	.75	2.85
31	2.20	.....	4.60	.....	1.90	.....	2.60	1.30	.....	.70	.....	2.50

Daily gage height, in feet, of Coosa River at Riverside, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July	Aug.	Sept.	Oct.	Nov.	Dec.
1898.												
1	2.30	6.00	1.65	6.80	3.90	1.30	1.15	4.25	2.20	2.20	2.60	3.70
2	2.15	5.25	1.70	7.50	3.60	1.25	1.05	4.00	1.80	1.80	2.50	4.00
3	2.10	4.00	1.80	6.80	3.30	1.20	1.00	4.10	1.75	1.70	2.50	3.90
4	2.00	3.25	1.80	5.50	3.05	1.20	.95	4.00	5.80	2.00	2.45	3.70
5	1.90	3.00	1.80	5.80	2.90	1.30	.95	3.30	9.30	6.80	2.40	3.70
6	1.85	2.80	1.75	9.30	2.70	1.25	.90	4.00	10.20	11.20	2.40	3.90
7	1.75	2.75	1.70	10.50	2.55	1.20	.95	5.50	11.00	11.90	2.40	4.00
8	1.70	2.70	1.70	10.80	2.40	1.10	1.00	5.80	11.80	15.80	2.40	4.00
9	1.65	2.60	1.65	10.40	2.30	1.05	1.15	4.50	11.60	14.70	2.45	3.70
10	1.60	2.50	1.65	8.80	2.20	1.05	1.65	4.30	10.80	12.50	2.55	3.30
11	1.60	2.40	1.60	7.80	2.15	1.00	2.15	4.50	8.70	12.00	2.75	3.25
12	1.65	2.30	1.60	6.00	2.10	1.45	2.15	4.70	5.80	11.20	2.75	3.10
13	1.80	2.20	1.70	5.00	2.00	1.10	2.10	6.70	4.75	8.80	2.70	3.00
14	2.00	2.20	1.80	4.40	1.95	1.25	2.15	5.90	4.10	5.50	2.65	2.90
15	3.10	2.10	2.00	4.00	1.90	1.15	2.05	4.70	3.40	4.40	2.70	2.80
16	3.00	2.00	2.25	3.70	1.85	1.00	2.30	3.70	3.00	3.60	2.80	2.65
17	2.80	1.95	3.00	3.50	1.80	1.65	3.10	3.00	2.70	3.00	3.00	2.60
18	2.60	1.90	4.75	4.00	1.75	1.70	3.05	2.75	2.50	3.50	3.15	2.60
19	2.80	1.85	5.50	5.10	1.70	1.65	2.50	2.55	2.25	5.40	3.25	2.70
20	3.00	1.80	4.70	5.80	1.60	1.55	1.90	2.45	2.20	6.40	3.70	2.90
21	4.10	1.80	4.00	5.50	1.70	1.95	1.65	2.40	2.15	6.30	4.20	4.00
22	5.80	1.80	3.25	4.00	1.65	2.10	1.50	2.40	2.20	6.00	5.15	3.80
23	6.05	1.75	3.00	4.50	1.55	2.30	1.35	2.35	2.55	5.80	7.00	3.40
24	6.50	1.75	2.75	5.75	1.50	2.50	1.25	2.30	3.55	5.00	5.90	3.00
25	7.20	1.70	2.80	7.10	1.45	2.05	1.20	2.15	4.30	4.35	5.20	2.75
26	9.00	1.70	2.15	7.80	1.40	1.75	1.40	2.00	3.90	4.00	4.90	2.70
27	10.20	1.70	2.00	7.45	1.55	1.50	2.35	1.80	3.40	3.75	4.60	2.50
28	10.65	1.65	2.00	6.45	1.70	1.60	3.15	2.00	3.15	3.30	4.20	2.40
29	10.45	.....	2.30	5.50	1.60	1.45	3.10	2.50	3.00	3.00	4.00	2.30
30	9.45	.....	3.00	4.75	1.45	1.30	3.40	3.00	2.75	2.75	3.80	2.30
31	7.85	.....	4.50	.....	1.35	.....	4.00	2.60	.....	2.70	.....	2.40
1899												
1	2.80	5.90	12.10	10.30	5.00	2.70	1.70	3.95	2.30	0.90	0.95	2.60
2	2.75	6.30	12.20	10.20	4.50	2.80	1.70	3.00	2.40	.90	.95	2.00
3	2.75	7.50	12.30	10.00	4.20	2.80	1.65	2.30	2.80	.90	.95	1.60
4	2.80	7.40	12.10	9.80	3.95	2.60	1.60	2.00	2.40	.90	.95	1.50
5	2.80	9.10	10.10	8.90	3.80	2.30	1.50	1.90	2.10	.90	.95	1.45
6	3.00	12.10	9.00	8.75	3.75	2.10	1.50	1.75	2.00	.90	.95	1.40
7	3.50	14.10	8.00	9.00	3.60	2.00	1.45	1.65	1.85	.90	.95	1.35
8	4.30	14.30	7.50	10.00	4.00	2.00	1.40	1.60	1.40	.90	.95	1.30
9	4.20	14.30	7.25	12.30	3.85	1.95	1.70	1.50	1.30	.95	.95	1.30
10	4.40	14.10	7.00	12.00	3.60	1.95	1.60	1.55	1.25	1.20	.95	1.35
11	5.20	13.80	6.15	11.70	3.45	1.95	1.50	1.55	1.25	1.30	.95	1.40
12	5.90	13.00	5.20	10.00	3.30	1.95	1.50	1.60	2.20	1.40	.95	5.80
13	5.60	12.00	5.50	8.90	3.20	2.00	1.40	1.50	2.50	1.30	.95	8.25
14	5.00	10.90	7.50	7.90	3.00	2.15	1.40	1.45	2.65	1.20	1.00	8.00
15	4.70	8.70	8.30	6.30	3.00	2.80	1.30	1.50	2.00	1.20	1.00	6.00
16	4.90	7.90	16.00	5.55	2.95	3.20	1.30	1.50	1.40	1.20	1.00	4.50
17	5.00	7.60	17.40	5.25	2.95	2.95	1.30	1.50	1.25	1.10	1.00	3.75
18	4.90	7.80	17.00	5.10	2.80	2.50	1.20	1.55	1.20	1.00	1.00	3.60
19	4.70	8.10	16.50	5.00	2.80	2.25	1.30	1.50	1.20	.95	1.00	3.40
20	4.65	8.20	16.30	4.80	2.75	9.00	1.50	1.45	1.10	.95	1.00	3.00
21	4.20	8.00	16.35	4.60	2.75	1.80	1.50	1.45	1.00	.90	.95	2.85
22	4.00	7.65	16.20	4.30	2.70	1.70	1.90	1.35	.95	.90	.95	2.75
23	3.90	8.00	15.90	4.75	2.70	1.70	3.20	1.30	1.00	.96	.95	3.00
24	3.90	8.10	15.70	5.65	2.65	1.60	4.70	1.30	1.00	1.20	.95	5.40
25	4.00	7.80	15.60	8.90	2.60	1.75	3.60	1.30	1.00	1.15	1.00	6.40
26	4.25	7.00	14.90	9.00	2.50	1.60	3.20	1.60	1.00	1.00	2.15	7.10
27	4.15	8.30	13.25	8.90	2.45	1.60	3.00	1.20	.95	1.00	2.90	7.00
28	4.00	11.00	11.00	8.30	2.35	1.65	3.60	1.10	.95	.95	3.05	6.60
29	3.90	.....	8.00	6.90	2.30	1.70	4.20	1.50	.90	.95	3.00	6.00
30	3.75	.....	7.90	5.45	2.20	1.65	5.20	2.10	.90	.90	2.75	4.85
31	3.70	.....	8.50	.....	2.70	.....	4.75	2.10	.....	.95	.....	4.00

Daily gage height, in feet, of Coosa River at Riverside, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900.												
1	3.50	2.70	6.90	6.65	5.00	2.75	11.60	4.70	1.85	1.55	2.20	5.75
2	3.00	2.65	7.55	6.25	5.30	2.80	10.10	3.90	2.00	1.65	2.25	4.85
3	2.50	2.60	6.90	6.00	5.80	2.90	8.90	3.00	2.20	1.50	2.50	3.75
4	2.40	2.50	6.25	5.60	4.75	2.60	8.20	2.75	2.10	1.50	2.50	3.40
5	2.15	2.60	5.40	5.10	4.30	2.70	7.50	2.55	2.00	1.50	2.50	3.20
6	2.05	2.80	5.00	4.90	4.20	3.45	6.45	2.40	1.80	1.45	2.40	4.35
7	1.95	2.95	4.90	4.75	4.00	3.90	5.50	2.25	1.70	1.40	2.40	6.05
8	1.95	3.00	6.00	4.40	3.65	4.20	4.70	2.15	1.60	1.50	2.35	5.40
9	2.00	3.75	8.75	4.35	3.40	7.05	5.00	2.10	1.50	2.20	2.30	4.80
10	2.00	4.25	10.00	4.30	3.30	8.30	4.30	2.00	1.45	2.35	2.30	4.00
11	2.10	5.80	10.55	6.50	3.15	8.00	4.20	2.00	1.35	3.85	2.15	3.60
12	3.50	6.50	10.05	12.40	2.95	7.70	4.10	1.90	1.30	3.60	2.10	3.15
13	6.00	13.30	8.75	12.90	2.70	6.70	5.65	2.25	1.25	3.80	2.10	2.95
14	7.40	15.30	7.50	11.70	2.70	4.30	4.65	2.00	1.20	2.80	2.00	2.80
15	7.00	15.20	5.60	9.50	2.65	4.50	3.75	1.90	3.35	3.00	1.90	2.70
16	6.40	14.50	6.00	7.20	2.65	4.70	3.60	1.85	6.00	2.90	1.80	2.65
17	5.10	14.00	6.30	12.40	2.60	5.00	3.50	2.00	7.00	2.80	1.75	2.60
18	4.00	13.25	6.00	18.10	2.60	4.90	3.35	2.00	7.50	2.65	1.70	2.55
19	4.25	12.80	6.50	17.55	2.60	6.90	3.10	2.20	6.00	2.50	1.80	2.55
20	8.00	12.10	10.00	15.65	2.60	6.90	3.00	2.10	4.35	2.40	2.00	3.00
21	9.70	9.00	12.20	12.95	2.65	6.45	2.90	2.20	3.20	2.80	2.50	3.80
22	10.00	7.80	12.85	13.15	3.20	6.10	2.70	2.00	2.50	2.20	4.00	5.20
23	9.40	6.80	12.60	12.65	2.90	7.00	2.45	2.00	2.00	2.15	3.80	7.00
24	8.75	7.20	11.80	12.20	3.00	11.35	2.50	1.95	1.90	3.00	3.20	7.30
25	7.75	6.90	10.60	10.80	3.25	12.50	2.60	1.90	1.85	5.25	3.10	6.90
26	6.00	6.50	10.30	9.15	3.10	14.10	2.50	2.20	1.80	7.50	3.00	6.35
27	4.10	5.25	10.20	7.90	3.20	14.42	2.60	2.10	1.80	5.00	4.35	5.90
28	3.60	5.00	9.85	6.50	3.00	14.60	3.70	2.00	1.65	3.80	6.40	4.90
29	3.30	.....	9.50	5.70	2.80	13.80	5.70	1.95	1.60	3.00	9.20	4.30
30	3.00	.....	8.50	5.35	2.70	12.80	5.30	1.90	1.55	2.65	8.20	4.00
31	2.70	.....	7.20	.....	2.60	.....	5.90	1.90	.....	2.50	.....	6.50
1901.												
1	7.20	6.00	3.55	14.35	4.80	5.20	3.00	2.15	5.60	2.70	1.90	1.85
2	7.35	6.50	3.50	14.40	4.60	8.20	2.90	2.10	5.00	4.00	1.85	1.90
3	6.50	9.00	3.50	13.30	4.30	8.25	2.85	2.10	4.50	3.20	1.85	1.95
4	6.00	10.60	3.50	11.90	4.15	7.20	2.80	2.05	4.30	3.00	1.85	1.95
5	5.50	11.00	3.40	10.40	4.00	5.75	2.80	2.00	3.65	2.90	1.80	2.20
6	5.00	12.00	3.30	10.30	3.95	5.00	2.75	2.20	3.30	2.75	1.80	2.10
7	4.25	11.90	3.20	9.00	3.90	4.80	2.75	4.10	3.05	2.60	1.80	2.00
8	3.95	11.50	3.10	7.25	3.75	4.30	2.70	4.80	3.00	2.50	1.85	2.00
9	3.70	9.90	3.10	6.50	3.60	4.20	3.50	4.25	2.90	2.30	1.85	2.10
10	3.60	9.60	3.40	5.60	3.45	6.20	4.00	3.50	2.85	2.30	1.80	2.10
11	6.50	9.90	5.50	5.00	3.25	6.00	3.50	2.90	2.75	2.25	1.80	2.05
12	14.10	9.60	6.50	4.80	3.15	5.00	2.90	2.75	2.70	2.30	1.80	2.00
13	15.70	8.90	7.50	4.80	3.10	4.25	2.50	2.60	2.65	3.00	1.80	2.00
14	15.40	7.60	7.00	6.50	3.10	3.75	2.40	3.20	2.65	2.80	1.75	2.90
15	15.10	6.50	6.30	7.50	3.00	3.75	2.35	3.20	2.60	2.70	1.75	11.50
16	14.90	5.80	5.25	8.30	2.95	3.80	2.20	8.40	2.85	2.50	1.80	12.00
17	14.80	5.45	4.25	7.80	2.95	3.80	3.15	5.30	3.90	2.45	1.80	12.50
18	13.90	5.00	3.75	6.50	2.90	4.90	2.90	9.60	5.60	2.60	1.80	12.40
19	13.30	4.80	3.55	10.50	2.90	5.00	2.90	9.65	6.30	2.40	1.80	11.00
20	11.30	4.60	3.85	14.00	2.85	4.50	3.20	10.00	7.50	2.35	1.75	10.20
21	8.30	4.35	3.75	14.50	4.00	3.90	3.00	11.50	7.20	2.30	1.75	9.20
22	6.25	4.20	3.70	14.30	8.20	3.60	2.95	11.00	6.00	2.30	1.75	8.00
23	5.30	4.00	3.50	13.50	9.90	3.50	2.90	11.50	4.50	2.25	1.75	4.80
24	4.60	3.90	4.30	12.50	10.75	3.25	2.75	12.50	3.30	2.20	1.85	3.60
25	5.30	3.85	13.90	11.30	11.85	3.15	2.70	12.90	3.00	2.10	1.90	4.10
26	5.80	3.65	15.90	9.90	11.90	3.00	2.60	12.40	2.70	2.10	2.10	4.60
27	6.30	3.65	15.20	7.90	11.80	2.90	2.40	12.00	2.60	2.10	2.00	5.10
28	6.40	3.60	14.70	6.80	11.00	3.00	2.20	11.50	2.50	2.05	2.00	6.50
29	5.85	.....	14.25	5.90	9.60	2.90	2.30	9.95	2.65	2.05	1.85	11.50
30	5.50	.....	14.60	5.20	6.20	3.10	2.40	8.35	2.60	2.00	1.85	15.60
31	5.80	.....	15.50	.....	4.60	.....	2.20	6.85	.....	1.95	.....	16.00

Daily gage height, in feet, of Coosa River at Riverside, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1902												
1	15.70	10.40	15.00	15.50	3.35	2.15	1.60	1.40	2.40	2.50	1.20	2.80
2	13.30	13.35	15.40	14.80	3.25	2.10	1.50	1.60	2.00	2.25	1.20	2.40
3	15.10	14.60	15.20	14.60	3.20	2.05	1.50	2.00	1.50	2.00	1.20	4.50
4	15.30	14.40	14.90	14.40	3.30	2.00	1.45	1.60	1.40	1.90	1.15	6.00
5	15.10	14.00	15.60	12.70	3.40	2.00	1.45	1.40	2.00	1.80	1.20	7.20
6	14.50	13.40	15.00	8.90	3.20	1.90	1.40	1.45	1.80	1.75	1.60	6.80
7	13.10	13.20	14.90	6.40	3.10	1.90	1.40	1.90	1.40	1.70	1.80	5.40
8	9.30	11.25	14.10	7.20	3.00	1.85	1.40	1.85	1.50	2.00	1.90	4.80
9	6.20	9.10	13.00	7.60	2.90	1.80	1.35	1.80	1.50	1.75	1.85	4.20
10	4.80	6.00	9.90	7.70	2.75	1.80	1.35	1.80	1.40	1.60	1.70	3.90
11	4.60	5.20	8.10	7.00	2.70	1.80	1.40	2.00	1.40	2.40	1.60	3.50
12	2.90	5.00	6.90	6.20	2.65	2.20	1.40	1.80	1.45	4.00	1.50	2.90
13	2.85	4.90	6.65	5.70	2.75	2.20	1.45	1.70	1.40	3.80	1.30	2.40
14	4.50	4.50	6.40	5.30	2.80	1.95	1.45	1.60	1.40	3.25	1.25	2.45
15	5.25	5.00	6.20	4.85	2.85	1.85	1.50	1.60	1.30	2.65	1.20	2.50
16	7.20	5.80	7.20	4.70	2.65	1.80	1.60	1.35	1.25	2.50	1.20	3.60
17	6.70	5.20	9.00	4.60	2.60	1.80	2.25	1.25	2.00	2.40	1.15	5.30
18	6.20	5.00	9.90	4.90	3.30	1.85	2.85	1.20	1.65	2.10	1.20	5.60
19	2.90	4.90	10.20	4.95	2.90	2.20	2.80	1.20	1.50	1.90	1.25	5.40
20	2.85	4.85	9.40	5.35	2.60	2.00	2.20	1.20	1.20	1.75	1.40	4.90
21	4.50	4.60	8.20	5.00	2.50	1.95	1.95	1.25	1.10	1.60	1.60	5.00
22	5.25	4.90	6.90	4.90	2.45	1.90	1.90	1.25	1.15	1.65	2.00	6.90
23	7.20	4.90	5.90	4.50	2.40	1.90	1.80	1.40	1.25	1.45	1.80	7.80
24	6.70	5.00	5.40	4.30	2.40	1.85	1.75	1.60	1.25	1.35	1.40	7.40
25	6.20	5.35	5.45	3.90	2.35	1.85	1.45	1.70	1.20	1.30	1.60	6.35
26	5.20	5.75	5.30	3.70	2.30	2.00	1.40	1.70	1.35	1.30	2.20	5.10
27	4.50	6.35	6.20	3.70	2.25	1.90	1.50	1.65	2.00	1.30	2.90	4.50
28	5.10	12.50	8.90	3.60	2.25	1.85	2.30	1.65	4.00	1.25	3.45	3.50
29	6.50	.....	13.30	3.50	2.20	1.80	1.60	1.60	3.50	1.25	3.90	3.40
30	7.00	.....	17.30	3.40	2.20	1.75	1.50	2.20	3.40	1.25	3.50	3.35
31	7.40	.....	16.50	.....	2.20	.....	1.40	2.40	.....	1.20	.....	3.25
1903												
1	3.20	4.20	12.90	13.40	4.20	6.10	4.00	3.00	1.25	1.10	1.10	1.20
2	4.00	3.90	14.30	13.60	4.00	7.80	3.80	3.45	1.25	1.05	1.15	1.20
3	4.50	3.85	14.60	13.75	3.85	7.60	3.00	3.20	1.30	1.10	1.25	1.15
4	5.50	5.40	14.60	13.65	3.80	6.90	2.80	3.00	1.40	1.10	1.25	1.15
5	5.55	6.30	14.65	13.50	3.60	7.00	2.70	2.65	1.30	1.05	1.30	1.10
6	5.60	9.40	15.15	12.80	3.50	9.30	2.65	3.00	1.25	1.00	1.35	1.05
7	5.35	11.30	15.00	10.50	3.45	8.60	2.65	3.75	1.25	1.00	1.60	1.05
8	5.10	15.20	14.50	7.75	3.40	10.05	2.60	4.95	1.20	1.30	1.80	1.05
9	4.50	14.80	13.40	8.90	4.00	9.00	2.60	3.50	1.20	1.10	1.90	1.10
10	3.50	14.20	10.90	9.70	4.10	7.30	2.60	2.45	1.20	1.00	1.80	1.15
11	4.20	15.10	9.30	8.80	4.00	5.60	2.55	2.20	1.15	1.20	1.60	1.20
12	5.00	16.00	9.60	7.40	3.65	4.80	2.65	2.00	1.15	1.40	1.40	1.15
13	5.90	15.75	9.70	6.60	3.35	4.40	2.70	1.80	1.10	1.50	1.35	1.15
14	6.60	14.80	11.60	8.90	3.60	5.00	3.30	1.50	1.10	1.30	1.40	1.15
15	6.30	14.10	11.55	10.10	3.70	4.40	6.00	1.50	1.20	1.20	1.40	1.20
16	5.30	14.00	10.80	10.35	7.90	3.90	6.60	1.50	1.25	1.10	1.35	1.20
17	4.45	17.25	9.30	10.00	6.30	3.60	5.50	1.80	1.25	1.10	1.30	1.20
18	3.90	16.40	7.90	8.10	5.25	3.40	3.90	2.00	2.00	1.20	1.25	1.15
19	3.60	15.50	6.85	6.70	4.05	3.10	3.15	3.25	2.05	1.20	1.25	1.15
20	3.40	14.40	6.20	6.30	3.90	2.90	2.75	2.70	1.80	1.30	1.30	1.20
21	3.25	14.20	5.70	5.60	3.70	2.75	2.60	2.35	1.50	1.20	1.25	1.20
22	2.90	14.00	7.10	5.10	3.20	2.65	2.35	2.30	1.35	1.20	1.20	1.25
23	2.85	13.80	9.10	4.80	3.10	2.00	2.20	2.05	1.25	1.25	1.30	1.25
24	2.85	12.20	10.20	4.75	3.00	2.60	2.20	1.90	1.20	1.30	1.30	1.30
25	2.65	8.20	11.00	4.65	2.90	2.65	2.30	1.75	1.20	1.25	1.35	1.40
26	2.70	5.80	11.65	4.55	2.90	2.80	2.20	1.65	1.15	1.20	1.30	1.35
27	2.70	5.40	11.90	4.50	2.90	2.70	2.10	1.50	1.15	1.15	1.30	1.30
28	2.90	8.40	11.55	4.40	2.70	2.65	2.10	1.40	1.20	1.05	1.40	1.30
29	3.40	.....	9.40	4.40	2.60	2.80	2.20	1.40	1.30	1.00	1.35	1.30
30	3.60	.....	10.00	4.30	3.00	5.10	2.15	1.35	1.20	1.05	1.25	1.20
31	3.90	.....	12.35	.....	3.90	.....	2.20	1.30	.....	1.10	.....	1.25

CANAL, POWER HOUSE, AND MILLS OF TALLASSEE FALLS MANUFACTURING COMPANY, AT TALLASSEE, ALA., ON TALLAPOOSA RIVER.
VIEW FROM EAST BANK.

DO NOT REMOVE

A. Dam and Power House of Montgomery Power Company, Above Tallassee, Ala., on Tallapoosa River. View From Right Bank Below Dam.

B. Interior of Power House of Montgomery Power Company, Above Tallassee, Ala.

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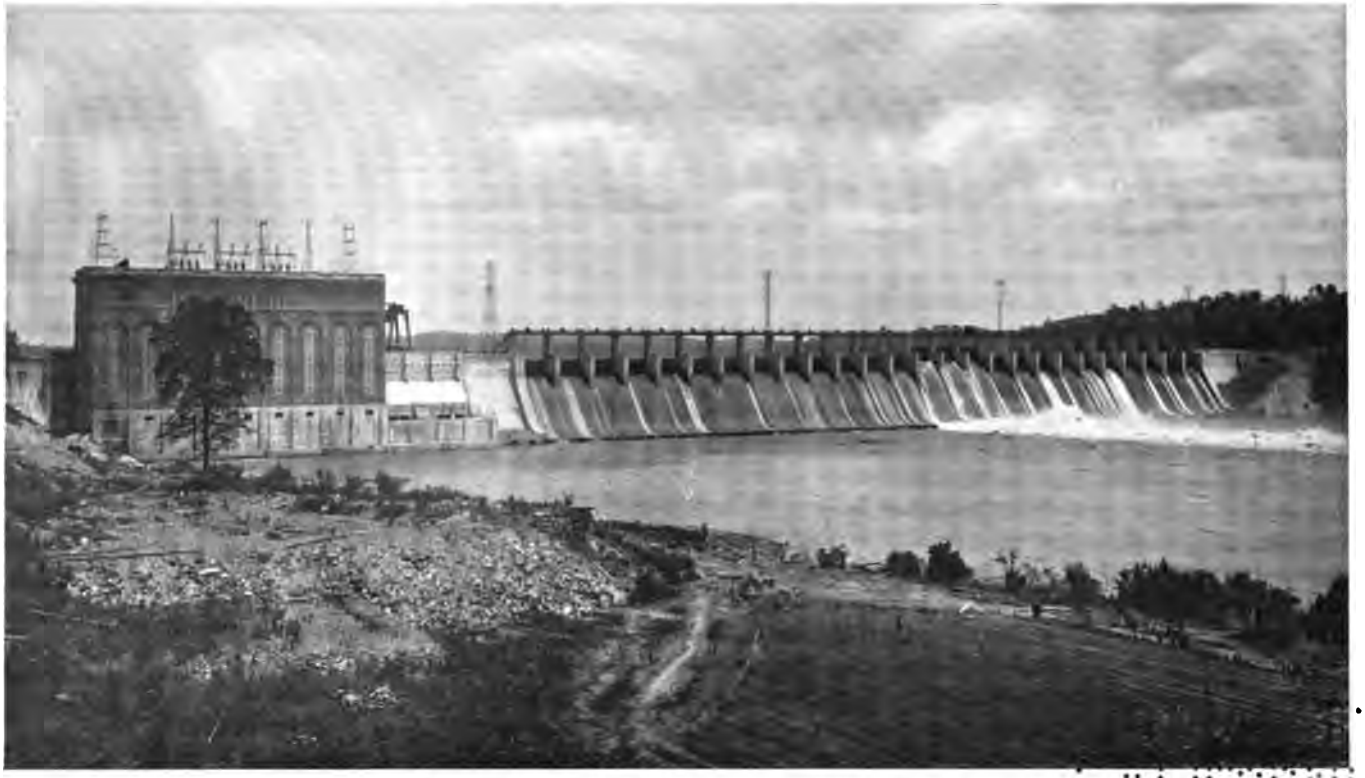

LOCK 12, COOSA RIVER. DAM AND POWER HOUSE OF ALABAMA POWER COMPANY.

Digitized by Google

FIRST STEAMER TO PASS THROUGH LOCK ON COOSA-ALABAMA RIVER, LOCK 1, FEBRUARY 8, 1890.

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A. Lock 1. Tombigbee River With Steamer in Lock.

B. Lock 2. Tombigbee River. Tow Boat Baldwin With Coal Barges Coming Out of Lock.

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A. Lock 3. Tombigbee River, Looking Up Stream.

B. Lock and Dam 5. Tombigbee River, Showing Apron of Derrick Stones Below Timber Crib Dam.

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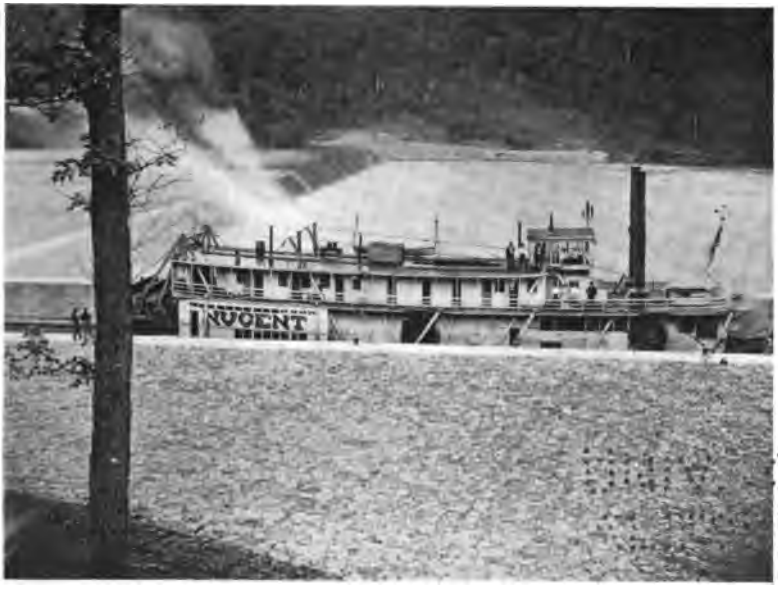
A. Lock 12. Black Warrior River, at Tuscaloosa, Alabama, With Packet Boat in Lock.



B. Lock and Dam 15. Black Warrior River With Tow Boat in Lock.

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LOCKS AND DAMS 10, 11 AND 12. BLACK WARRIOR RIVER. VIEW LOOKING UP STREAM FROM COUNTY BRIDGE, TUSCALOOSA, ALA.

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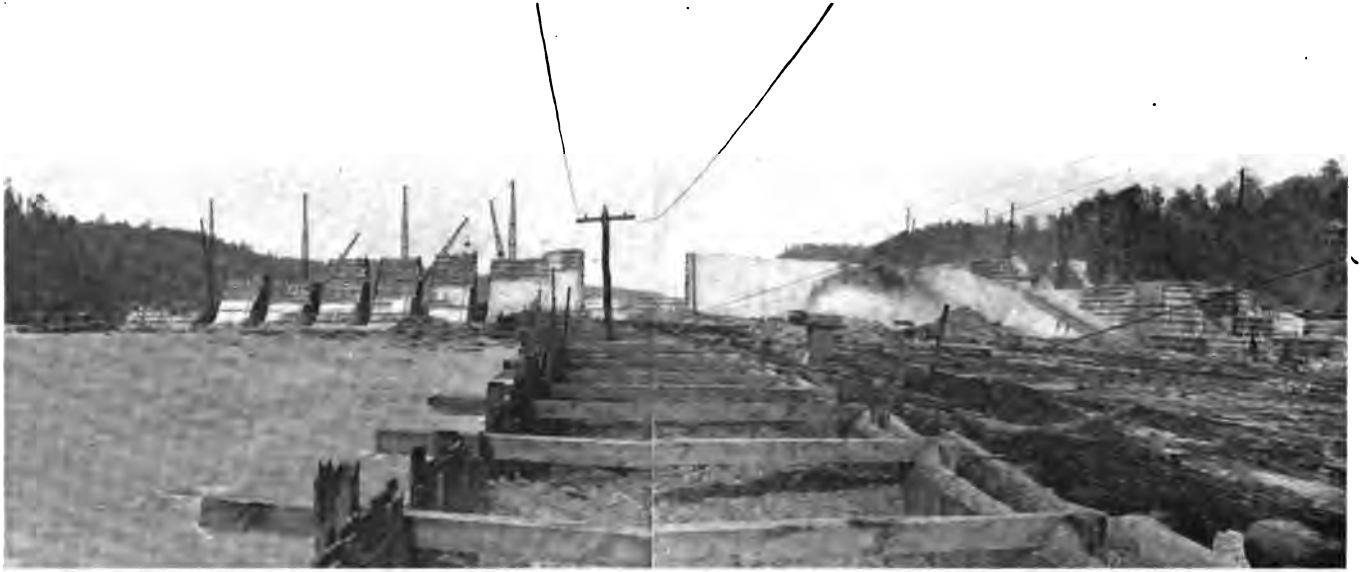
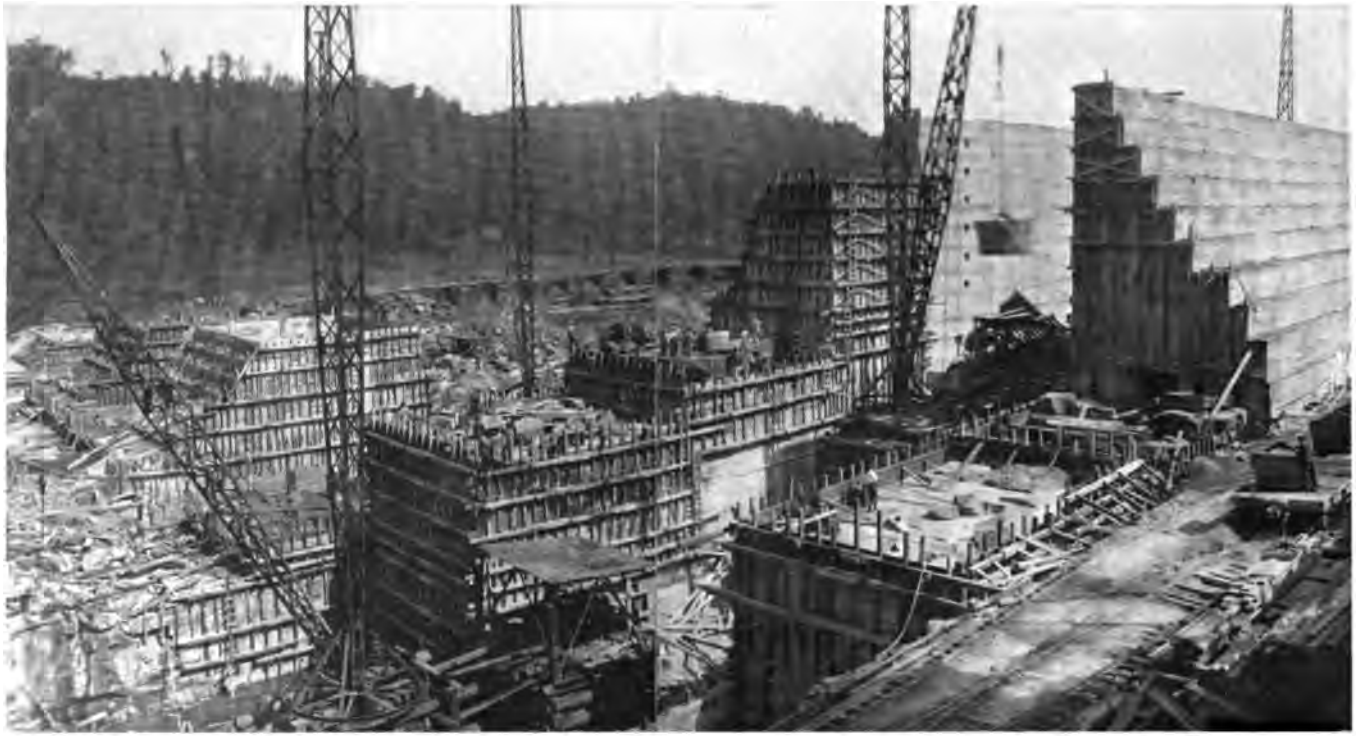


LOCK 17. BLACK WARRIOR RIVER. LOCK AND DAM UNDER CONSTRUCTION.

UNIV. OF CALIFORNIA

Digitized by Google



LOCK 17. BLACK WARRIOR RIVER. LOCK UNDER CONSTRUCTION.

Digitized by Google

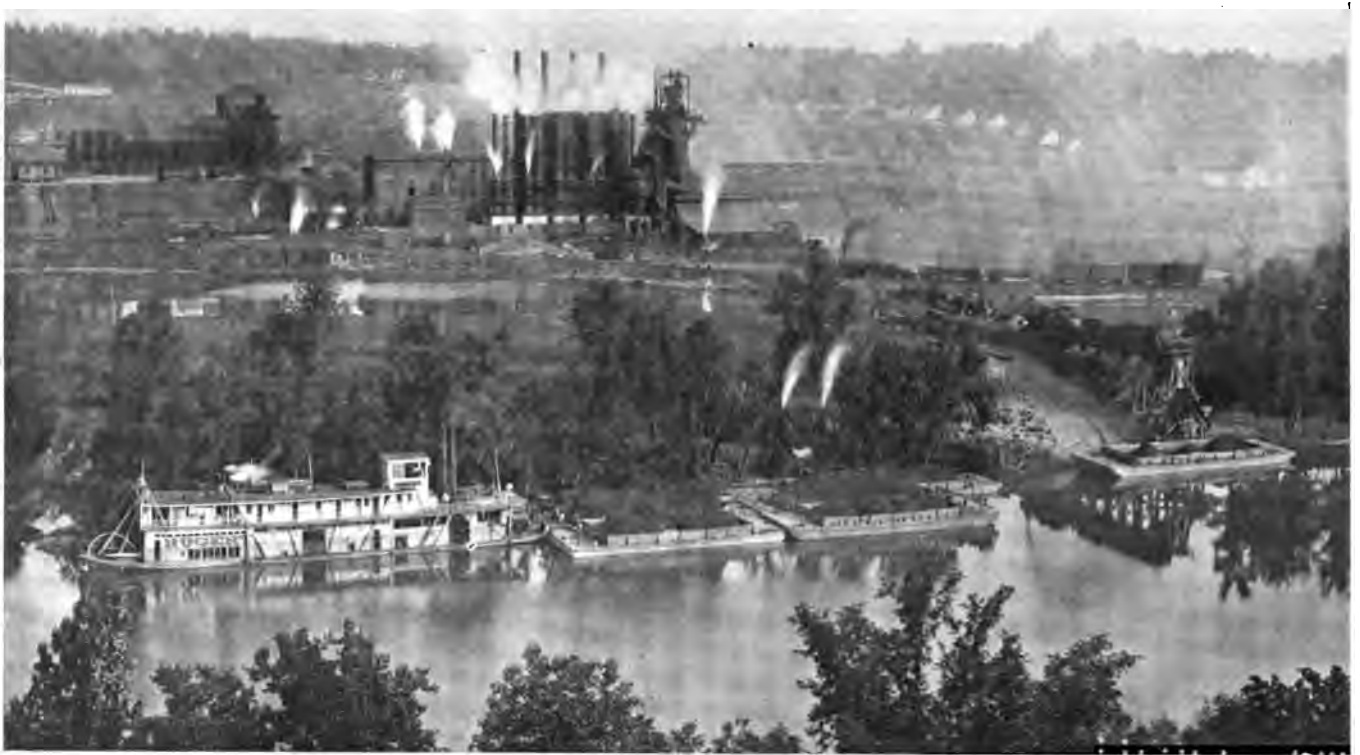
LOCK 17. BLACK WARRIOR RIVER. VIEW OF COMPLETED LOCK AND DAM.

CALIFORNIA

Digitized by Google

LOCK 17. BLACK WARRIOR RIVER. FORMAL OPENING OF LOCK, MAY 13, 1915.

Digitized by Google



HOLT ON BLACK WARRIOR RIVER, BETWEEN LOCKS 12 AND 13. VIEW OF BY-PRODUCT COKE OVENS AND FURNACES, STEAMER WITH COAL BARGES AND LOADING TIPPLE.

DO NOT COPY

A. STEAMER NUGENT ARRIVING AT TUSCALOOSA WITH BARGES CARRYING 1,200 TONS OF COAL FROM MULBERRY FORK.

B. SELF-PROPELLING STEEL BARGE NO. 1, LEAVING LOCK 10, BLACK WARRIOR RIVER WITH 735 TONS OF COAL FOR NEW ORLEANS.

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STEAMER COLBERT IN LOCK 9, FOOT OF MUSCLE SHOALS, TENNESSEE RIVER.

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Stanford Libraries

BIG SPRING AT HUNTSVILLE, ALA.

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Daily gage height, in feet, of Coosa River at Riverside, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1	1.35	2.10	2.90	4.00	2.30	2.30	2.60	1.15	1.20	0.50	0.35	0.70
2	1.30	2.05	2.60	3.60	2.15	2.70	2.55	1.35	1.20	.50	.40	.80
3	1.30	2.05	2.45	3.40	2.10	2.80	2.30	1.50	1.20	.50	.45	.80
4	1.25	2.00	2.60	3.10	1.90	3.00	2.15	2.60	1.10	.50	.60	1.00
5	1.25	2.00	2.85	3.00	1.90	2.55	1.90	2.80	1.00	.50	.65	1.70
6	1.20	1.90	3.05	2.75	1.80	2.05	1.45	3.00	1.00	.55	.70	2.75
7	1.20	1.95	3.90	2.70	1.75	1.70	2.10	3.80	1.00	.60	.75	3.20
8	1.20	2.75	4.30	3.20	1.80	1.65	2.15	4.20	1.00	.60	.75	3.75
9	1.20	3.35	4.80	3.80	1.90	1.65	1.55	3.80	1.00	.55	.75	3.50
10	1.20	3.55	5.20	5.10	1.80	1.95	1.40	4.35	1.00	.50	.70	3.20
11	1.25	4.05	4.80	5.20	1.80	2.00	1.40	6.25	.95	.50	.70	3.00
12	1.30	3.95	4.30	4.90	2.60	1.70	1.40	5.40	.95	.50	.70	2.85
13	1.30	3.70	4.30	4.20	2.20	1.50	1.40	4.15	.85	.50	.65	2.60
14	1.30	3.35	4.30	3.50	2.10	1.30	1.25	3.20	.80	.45	.55	2.40
15	1.40	3.05	4.05	3.00	2.00	1.15	1.25	2.70	.70	.40	.55	2.00
16	1.45	2.90	4.00	2.80	1.70	1.15	1.25	2.55	.60	.40	.60	1.60
17	1.50	2.30	3.90	2.70	1.60	1.05	1.30	2.30	.60	.40	.70	1.30
18	1.80	2.35	3.70	2.60	1.50	1.05	1.30	2.15	.60	.40	.70	1.25
19	1.90	2.50	3.80	2.40	1.55	1.05	1.40	1.95	.60	.40	.65	1.20
20	2.10	2.90	3.80	2.40	1.50	1.00	1.65	1.75	.60	.35	.65	1.10
21	2.25	3.25	3.50	2.35	1.40	1.00	1.50	1.65	.75	.35	.65	1.10
22	2.50	3.80	3.20	2.25	1.35	1.00	1.30	1.50	.90	.35	.70	1.10
23	4.45	4.90	3.30	2.20	1.30	1.00	1.10	1.45	.90	.35	.75	1.10
24	5.10	5.45	5.30	2.20	1.30	1.40	1.10	1.35	.90	.35	.75	1.10
25	5.00	6.05	6.10	2.15	1.20	1.50	1.10	1.30	.75	.35	.75	1.10
26	4.30	5.80	6.85	2.15	1.20	1.40	1.15	1.25	.60	.35	.75	1.10
27	4.00	4.80	6.20	2.15	1.15	1.20	1.20	1.25	.60	.35	.75	1.70
28	3.70	3.80	5.90	2.40	1.15	1.00	1.20	2.00	.55	.35	.80	2.90
29	3.30	3.30	5.50	2.50	1.20	1.50	1.20	1.90	.55	.35	.80	3.75
30	2.55	.....	4.90	2.60	1.20	2.25	1.10	1.55	.55	.35	.80	5.00
31	2.30	.....	4.40	.....	1.80	.....	1.15	1.40	.....	.35	.....	5.20
1905												
1	4.2	3.3	5.6	3.0	3.6	3.9	3.3	2.05	1.75	1.0	1.5	1.5
2	4.0	3.2	4.9	3.0	4.0	3.4	3.7	2.1	1.6	1.2	1.45	1.5
3	3.8	3.0	4.4	2.9	4.3	3.0	3.6	1.9	1.6	1.5	1.4	3.6
4	3.4	2.7	4.0	2.85	4.1	2.7	3.2	1.65	1.8	1.85	1.4	6.1
5	3.0	3.5	3.3	2.8	3.3	2.55	3.0	1.5	2.0	1.8	1.3	3.3
6	2.25	5.4	3.7	2.9	3.7	2.45	2.85	1.5	2.05	1.65	1.2	9.7
7	2.6	7.2	3.5	3.0	3.3	2.4	2.3	1.5	2.1	1.6	1.2	9.7
8	2.95	9.2	3.5	3.1	4.0	2.3	2.75	1.45	1.8	1.5	1.2	6.1
9	3.1	13.1	3.5	3.4	4.0	2.25	3.1	1.45	1.4	1.45	1.2	5.0
10	3.5	14.8	3.3	3.6	3.6	2.15	3.7	1.65	1.4	1.55	1.25	6.3
11	4.0	14.5	4.5	3.6	3.5	2.1	3.0	2.7	1.3	1.75	1.4	8.9
12	6.3	13.8	4.9	3.5	3.4	2.05	4.5	3.1	1.25	2.4	1.4	10.7
13	11.5	13.1	4.9	3.2	3.4	2.0	5.2	3.5	1.2	2.6	1.3	9.0
14	12.8	12.9	4.6	3.4	3.0	2.0	6.3	4.1	1.4	3.0	1.3	7.6
15	13.0	12.3	4.2	3.4	2.65	2.0	6.2	5.1	1.9	3.1	1.35	5.8
16	12.5	10.2	3.8	3.4	3.9	2.1	6.0	4.7	2.25	2.8	1.3	6.4
17	11.1	9.0	3.5	3.2	6.7	2.25	5.0	5.1	2.05	2.2	1.25	6.8
18	8.3	7.6	3.3	3.0	6.9	2.45	3.4	5.2	1.8	2.2	1.2	6.8
19	5.2	7.0	3.2	3.0	6.9	2.45	2.5	5.0	1.25	2.1	1.2	6.1
20	4.6	7.9	3.1	3.0	5.6	2.5	2.4	4.7	1.2	2.1	1.2	5.3
21	4.0	10.0	5.5	2.7	4.6	2.65	2.3	3.7	1.15	1.8	1.2	6.8
22	3.6	12.4	5.9	2.75	4.4	2.8	2.1	3.0	1.15	1.5	1.15	8.6
23	3.2	12.6	6.4	2.75	4.1	2.8	2.05	2.5	1.15	1.45	1.2	10.4
24	3.0	12.6	6.7	2.65	6.2	3.1	2.0	2.3	1.15	1.4	1.4	10.9
25	2.9	12.6	6.4	2.6	8.4	3.2	1.9	2.05	1.15	1.3	1.5	8.6
26	2.7	12.0	4.8	2.6	9.9	3.3	1.8	2.0	1.1	1.3	1.35	8.0
27	2.6	9.6	4.2	2.7	10.5	3.0	1.75	2.0	1.0	1.3	1.3	6.9
28	2.6	7.2	3.8	2.75	8.3	2.8	1.7	2.0	1.0	1.3	1.25	6.2
29	3.0	.....	3.4	2.85	7.0	3.6	1.7	2.0	1.0	1.3	1.5	6.0
30	3.2	.....	3.2	3.4	5.7	3.9	1.7	2.0	1.0	1.45	1.5	5.8
31	3.2	.....	3.1	.....	4.5	.....	1.7	1.9	.....	1.5	.....	5.4

Daily gage height, in feet, of Coosa River at Riverside, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1906												
1	4.9	5.6	2.8	10.8	3.3	2.55	2.6	6.0	3.8	7.5	2.85	3.8
2	4.4	5.2	2.8	10.6	3.15	2.35	2.35	5.5	4.1	11.5	2.8	3.5
3	6.0	4.8	6.0	9.3	3.0	2.3	2.25	4.9	4.4	12.4	2.8	3.4
4	8.8	4.6	8.5	8.4	3.0	2.5	2.4	4.5	4.5	12.5	2.7	3.3
5	10.4	4.4	8.9	6.9	3.2	2.75	2.5	5.0	4.2	12.3	2.6	3.25
6	11.7	4.0	8.3	6.0	3.4	2.85	2.5	5.4	3.7	12.0	2.55	3.2
7	11.9	3.6	7.1	5.5	4.0	2.85	2.5	5.1	5.3	11.0	2.5	3.15
8	10.7	3.6	6.0	5.1	3.9	2.9	3.2	5.2	4.6	9.5	2.45	3.1
9	7.3	3.6	5.2	4.8	4.2	2.95	3.2	4.8	4.5	8.3	2.4	3.05
10	6.1	3.4	4.9	5.5	4.2	2.75	3.3	4.3	4.4	6.8	2.4	3.45
11	5.8	3.2	5.2	5.6	3.6	2.25	2.65	3.7	5.4	5.5	2.4	4.8
12	5.5	3.1	4.7	5.6	3.2	2.0	2.55	3.7	4.9	4.8	2.35	5.0
13	5.5	3.05	4.2	6.1	2.85	2.0	2.55	3.9	4.4	4.2	2.3	5.8
14	5.4	3.0	3.8	5.4	2.7	2.0	2.8	3.5	3.9	3.9	2.3	5.5
15	5.2	3.0	3.6	4.9	2.65	5.2	5.8	3.5	3.85	3.55	2.35	5.0
16	5.2	3.0	10.5	4.4	2.55	8.5	7.5	4.2	3.7	3.3	2.5	4.1
17	5.1	2.9	12.9	4.3	2.5	9.5	7.4	4.1	3.2	3.2	2.5	4.0
18	5.1	2.8	13.5	4.3	2.4	9.0	10.6	4.0	2.8	3.2	2.75	4.4
19	5.1	2.7	16.1	4.2	2.35	7.6	12.3	4.0	2.45	6.0	7.7	4.9
20	5.0	2.55	19.8	3.95	2.3	5.9	12.9	4.4	2.45	8.6	10.9	5.7
21	4.8	2.5	18.4	3.7	2.3	4.2	12.1	4.9	4.0	9.4	12.5	6.2
22	5.6	2.5	17.1	3.6	2.25	3.5	11.2	3.9	4.9	8.2	12.9	5.9
23	7.0	2.7	16.1	3.5	2.2	3.1	10.3	3.6	4.6	6.2	12.8	5.4
24	8.9	3.1	15.3	3.4	2.15	2.85	9.0	3.3	4.0	4.9	12.7	5.0
25	10.4	3.4	14.9	3.3	2.15	2.6	7.4	3.1	3.8	4.0	12.4	4.1
26	11.1	3.25	13.9	3.2	2.1	2.6	7.2	3.45	3.9	3.65	12.1	4.0
27	10.2	3.1	10.2	3.1	2.1	2.8	6.9	3.45	3.45	3.5	10.8	3.95
28	9.1	3.0	11.8	3.0	2.15	3.7	4.7	4.0	3.3	3.35	9.4	3.9
29	8.0	.....	12.3	3.0	2.75	3.35	4.0	4.5	3.3	3.15	5.1	4.6
30	6.4	.....	12.2	3.15	3.55	2.95	5.0	3.8	5.3	3.05	4.1	5.0
31	6.2	.....	11.2	.....	2.95	.....	6.4	3.65	.....	2.95	.....	9.5
1907.												
1	11.7	7.1	9.8	3.1	4.9	7.8	3.25	2.5	1.55	2.65	1.55	4.3
2	12.6	9.3	12.5	3.25	4.4	8.8	3.25	2.35	1.55	3.25	1.6	3.85
3	12.2	10.1	14.0	3.5	4.0	8.8	3.25	2.2	1.5	4.0	1.4	3.45
4	11.4	10.6	14.0	3.6	4.0	7.8	3.0	2.0	2.0	3.1	1.4	3.2
5	10.1	11.5	13.5	3.6	4.0	6.3	2.65	1.9	2.75	2.45	1.45	2.85
6	8.2	11.0	12.8	3.6	4.1	4.9	2.5	1.8	2.2	2.2	1.5	2.65
7	6.0	10.6	11.3	3.75	4.7	4.2	2.35	1.6	1.9	2.0	1.45	2.5
8	5.3	9.8	9.4	4.0	5.2	3.75	2.2	1.55	2.0	2.0	1.4	2.45
9	4.9	8.2	6.7	4.2	5.4	3.45	2.1	2.4	2.15	2.05	1.4	2.4
10	4.6	6.6	6.0	4.2	5.6	3.2	2.05	2.4	2.0	2.05	1.4	3.1
11	4.4	5.8	5.8	3.85	5.8	3.5	2.0	3.0	1.75	2.0	1.4	3.3
12	4.3	5.3	5.4	3.6	5.9	4.0	2.0	3.0	2.0	1.8	1.9	3.7
13	4.2	4.9	4.9	3.3	5.5	4.3	2.0	2.75	2.25	1.75	2.85	4.2
14	4.0	4.8	4.7	3.3	5.0	3.9	2.75	2.6	1.95	1.65	2.35	5.0
15	3.8	4.4	4.7	3.4	7.5	3.35	3.6	2.3	1.8	1.55	2.15	5.3
16	3.65	4.1	4.6	3.4	10.4	3.35	3.4	2.0	1.7	1.45	1.95	5.7
17	3.55	3.95	4.6	3.4	11.0	3.45	3.4	2.9	1.65	1.4	1.9	5.9
18	3.5	3.8	4.5	3.35	10.4	3.0	3.25	2.8	1.5	1.4	1.85	5.4
19	3.45	3.7	4.5	3.6	8.2	2.65	2.9	2.7	1.3	1.35	1.95	4.7
20	3.4	3.6	4.2	3.7	5.4	2.55	2.4	2.6	1.25	1.35	2.1	4.0
21	4.2	3.55	4.0	3.7	5.1	2.45	2.5	2.5	1.2	2.35	2.65	3.75
22	4.2	3.5	3.9	3.65	4.4	2.35	2.65	2.5	1.9	1.35	3.75	3.5
23	4.2	3.5	3.8	4.0	4.0	2.35	2.35	2.45	3.6	1.35	6.1	3.4
24	3.85	3.5	3.7	4.5	3.8	2.35	2.15	2.5	7.0	1.3	8.5	4.3
25	3.55	4.8	3.55	5.8	4.2	2.35	2.0	2.6	7.1	1.3	9.2	5.3
26	3.4	5.7	3.4	6.1	4.6	2.6	1.95	2.7	6.2	1.3	9.3	5.2
27	3.3	6.8	3.35	6.2	5.3	2.8	1.9	2.4	4.4	1.3	8.8	5.1
28	3.25	8.1	3.2	5.9	4.4	2.95	2.2	2.2	3.7	1.3	7.2	5.0
29	3.2	.....	3.1	4.8	4.2	3.3	2.5	1.95	2.9	1.3	5.9	5.1
30	3.2	.....	3.1	4.9	4.1	3.5	2.8	1.75	2.75	1.3	5.1	6.1
31	3.4	.....	3.1	.....	4.9	.....	2.7	1.55	.....	1.5	.....	8.4

Daily gage height, in feet, of Coosa River at Riverside, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1908.												
1	9.6	5.6	6.2	5.6	4.8	3.7	1.75	1.55	1.65	.95	1.15	1.25
2	10.4	7.6	5.6	5.1	4.4	3.3	1.7	1.55	1.55	.95	1.25	1.65
3	10.2	8.4	5.2	4.8	4.2	2.95	1.65	1.5	1.45	.95	1.55	1.95
4	8.5	8.2	6.3	4.5	4.0	2.7	1.7	1.45	1.35	.95	1.65	2.05
5	6.8	7.0	5.9	4.2	3.95	2.45	1.7	1.45	1.25	.95	1.7	2.75
6	7.2	6.15	5.4	4.2	4.6	2.6	1.7	1.45	1.85	.9	1.7	2.95
7	8.0	5.8	5.0	4.2	4.7	2.75	2.1	1.85	2.4	.9	1.6	6.8
8	8.4	5.5	4.8	4.4	4.9	3.1	2.8	2.55	3.9	.9	1.55	10.6
9	7.8	5.4	4.4	4.7	5.0	3.0	4.4	2.7	4.1	1.05	1.45	11.7
10	7.0	5.4	4.1	4.4	5.2	2.9	3.5	2.85	3.05	1.15	1.35	11.8
11	6.1	7.9	4.0	4.1	5.1	2.8	2.85	3.05	2.1	1.85	1.25	11.0
12	6.4	9.7	4.0	3.8	4.2	2.7	3.05	2.95	1.75	2.1	1.2	8.7
13	6.5	11.1	4.0	3.65	3.8	2.6	3.6	2.5	1.6	2.95	1.15	6.7
14	6.5	12.0	4.2	3.5	3.5	2.6	3.1	1.95	1.45	2.25	1.1	4.2
15	6.6	14.3	4.4	3.4	3.45	2.6	2.85	1.7	1.35	1.85	1.1	3.35
16	6.6	14.6	4.3	4.7	3.45	2.6	2.25	1.55	1.35	1.25	1.1	3.1
17	6.0	14.4	4.2	6.2	3.35	2.5	2.0	1.45	1.35	1.25	1.15	2.8
18	5.6	14.1	4.0	6.6	3.35	2.5	1.9	1.35	1.3	1.25	1.2	2.55
19	5.2	13.9	3.9	6.6	3.7	2.45	1.18	1.35	1.2	1.15	1.2	2.4
20	5.0	13.7	3.9	6.5	3.7	2.4	1.8	1.5	1.2	1.15	1.2	2.45
21	4.8	12.4	5.2	7.2	3.6	2.25	1.75	1.65	1.15	1.1	1.15	2.85
22	4.4	9.9	6.3	7.4	3.45	2.1	1.7	1.95	1.15	1.1	1.15	3.05
23	4.2	8.0	8.0	6.6	3.45	2.1	1.65	2.05	1.15	1.1	1.15	5.2
24	4.0	6.3	12.1	5.4	3.25	2.35	1.6	2.05	1.15	1.05	1.15	8.2
25	3.85	5.9	13.0	6.0	3.0	2.5	1.6	3.35	1.15	1.0	1.1	8.7
26	3.7	5.6	13.2	7.2	2.85	2.6	1.65	3.7	1.2	1.0	1.05	8.0
27	3.55	5.8	13.0	8.1	3.35	2.35	1.55	3.35	1.15	1.0	1.05	6.1
28	3.4	6.6	12.6	8.3	4.5	2.15	1.55	3.25	1.1	1.05	1.15	4.8
29	3.35	7.0	11.1	8.0	4.9	2.0	1.5	2.95	1.05	1.15	1.15	4.7
30	3.35	.....	9.0	6.0	4.0	1.9	1.45	2.55	1.0	1.15	1.15	4.6
31	3.35	.....	6.0	.....	3.85	.....	1.55	1.85	.....	1.1	.....	4.2
1909												
1	3.0	2.75	12.5	7.9	11.4	4.0	6.6	4.2	3.5	1.5	1.4	1.4
2	2.9	2.65	12.0	6.2	12.0	5.0	5.5	4.9	3.4	1.7	1.4	1.4
3	2.95	2.5	10.8	5.2	12.4	5.6	4.8	7.9	2.5	1.5	1.3	1.4
4	3.15	2.45	9.2	4.8	12.2	10.8	4.2	8.1	2.6	1.4	1.4	1.5
5	4.2	2.4	7.6	4.6	11.6	12.6	3.8	8.6	2.5	1.4	1.4	1.5
6	5.8	2.45	5.6	4.8	9.2	13.6	3.4	9.4	1.9	1.35	1.4	1.5
7	7.6	3.65	6.0	4.8	7.4	13.2	3.3	10.1	1.8	1.3	1.4	1.7
8	8.4	4.2	6.5	5.1	6.4	13.0	3.9	8.8	1.9	1.3	1.4	2.1
9	7.1	4.5	7.2	6.0	5.2	12.4	6.0	5.8	1.9	1.3	1.3	4.3
10	6.2	6.1	10.2	6.1	5.2	12.0	6.0	4.4	1.8	1.3	1.3	5.6
11	4.8	7.8	12.6	5.8	5.2	10.4	7.0	4.1	1.95	1.3	1.3	4.5
12	4.1	9.6	14.2	5.2	6.4	8.0	6.1	3.8	2.0	1.3	1.3	4.0
13	3.7	10.4	17.4	4.8	6.0	7.4	4.8	3.3	1.9	1.3	1.3	3.4
14	3.8	11.8	19.6	5.4	5.2	7.0	4.4	3.2	1.9	1.2	1.3	3.4
15	4.8	13.2	19.6	5.8	4.4	6.8	4.0	3.6	1.9	1.6	1.3	4.7
16	5.1	14.1	18.6	6.2	4.2	5.4	4.2	3.6	1.9	1.7	1.3	5.0
17	7.2	13.9	17.7	5.8	5.0	5.0	4.4	3.4	1.8	4.7	1.3	4.8
18	8.8	13.6	17.8	5.0	4.8	5.0	3.6	3.1	1.7	5.2	1.3	4.0
19	9.6	13.4	17.6	4.4	4.6	4.6	3.3	3.0	1.9	3.8	1.3	3.2
20	9.4	13.2	17.6	4.2	4.6	4.2	3.3	2.7	2.0	2.4	1.3	2.8
21	8.4	12.8	18.3	4.0	5.6	4.4	3.0	2.6	2.0	2.1	1.3	2.1
22	6.8	11.2	17.7	3.8	7.5	6.0	2.8	2.3	2.0	1.9	1.3	2.1
23	5.2	10.2	16.6	5.2	7.4	6.2	2.8	2.2	2.0	1.7	1.3	2.5
24	4.4	11.2	15.0	7.0	6.6	6.8	2.7	2.1	1.9	1.7	1.35	2.5
25	4.0	13.0	11.2	8.4	6.2	7.6	2.6	2.0	2.0	1.7	1.4	3.0
26	3.8	13.2	8.8	11.2	6.2	8.2	3.1	1.9	2.2	1.6	1.4	3.2
27	3.5	13.0	8.5	11.8	6.0	7.4	3.1	1.9	2.4	1.5	1.4	3.6
28	3.3	12.7	8.3	11.5	5.8	6.4	2.7	1.9	2.0	1.5	1.4	3.5
29	3.2	.....	7.9	9.0	5.0	6.6	2.4	1.8	1.7	1.4	1.4	3.0
30	3.15	.....	8.4	8.4	4.6	6.6	2.8	1.9	1.6	1.4	1.4	2.1
31	3.0	.....	8.5	.....	4.4	.....	2.9	2.6	.....	1.4	.....	2.0

Daily gage height, in feet, of Coosa River at Riverside, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1910												
1	2.0	3.5	6.1	2.2	2.4	4.0	6.9	2.8	2.2	1.3	1.0	1.25
2	2.0	3.2	7.3	2.2	2.4	3.5	8.5	2.8	2.5	1.3	1.0	1.3
3	2.0	3.0	8.8	2.2	2.4	3.1	10.3	2.8	3.0	1.4	1.0	1.3
4	2.0	2.8	8.7	2.2	2.3	2.9	11.9	2.8	3.6	1.4	1.0	1.25
5	2.2	2.7	7.5	2.1	2.3	2.9	11.3	2.7	4.0	1.5	1.0	1.4
6	2.2	2.7	6.3	2.1	2.2	3.0	10.6	3.0	4.2	1.3	1.0	1.5
7	3.6	2.7	5.5	2.0	2.2	4.3	10.3	4.1	4.5	1.8	1.1	3.1
8	5.0	2.6	4.7	1.9	2.2	5.8	10.9	5.0	4.0	2.1	1.1	5.7
9	5.8	2.5	4.2	1.9	2.3	5.9	10.7	5.0	3.2	2.1	1.1	6.3
10	5.4	2.4	4.0	1.9	2.8	6.0	9.3	4.5	2.9	2.0	1.1	5.3
11	4.7	2.4	4.7	1.9	3.6	5.7	8.5	3.7	2.5	2.0	1.1	4.1
12	4.0	2.3	5.3	2.0	5.6	6.5	8.4	3.0	2.3	1.8	1.1	3.0
13	3.3	2.0	5.0	2.0	6.0	6.4	7.8	2.6	2.0	1.7	1.1	2.2
14	3.0	3.4	4.7	2.0	4.5	6.4	7.5	2.5	1.7	1.6	1.1	2.0
15	2.7	3.4	4.1	2.1	3.8	6.2	6.8	2.5	1.6	1.6	1.1	1.8
16	2.9	3.3	3.8	2.2	2.8	6.0	5.7	2.5	1.6	1.5	1.1	1.7
17	3.0	3.3	3.5	3.5	2.5	4.8	6.0	2.4	1.5	1.5	1.1	1.6
18	2.8	7.1	3.2	5.0	3.5	4.0	5.5	2.3	1.4	1.4	1.1	1.6
19	2.8	8.3	3.0	4.2	6.0	3.8	4.2	2.2	1.4	1.4	1.1	1.5
20	3.0	9.9	3.0	4.0	8.5	3.8	3.7	2.1	1.4	1.35	1.1	1.5
21	3.1	9.7	2.9	3.5	10.2	3.8	3.6	2.2	1.35	1.3	1.1	1.5
22	3.5	8.2	2.8	3.1	11.3	4.0	3.6	2.2	1.3	1.3	1.1	1.5
23	3.4	6.7	2.7	3.0	12.1	3.8	3.5	2.1	1.3	1.2	1.1	1.6
24	3.3	5.7	2.7	2.8	12.8	3.4	3.4	2.0	1.3	1.2	1.1	1.6
25	3.3	5.3	2.5	2.7	12.2	3.3	3.4	2.0	1.3	1.2	1.1	1.5
26	3.5	4.9	2.5	2.6	11.9	3.0	3.3	2.0	1.3	1.1	1.1	1.4
27	3.5	4.6	2.5	2.5	11.0	3.2	3.2	1.9	1.2	1.1	1.1	1.4
28	3.7	4.4	2.3	2.5	10.0	4.5	3.0	1.9	1.2	1.1	1.1	1.6
29	3.7	.....	2.3	2.4	8.4	5.0	3.0	2.0	1.2	1.1	1.15	1.7
30	3.6	.....	2.3	2.4	6.9	7.0	3.0	2.0	1.3	1.1	1.2	1.9
31	3.5	.....	2.3	.....	5.5	.....	2.9	2.1	.....	1.1	.....	1.9
1911												
1	2.0	2.2	2.9	3.95	3.15	1.95	2.0	2.6	1.0	1.0	1.0	1.6
2	3.3	2.1	3.4	3.2	3.15	1.95	1.9	3.2	1.0	1.0	1.0	1.6
3	8.0	2.0	3.8	2.85	3.05	1.85	1.8	4.2	1.0	1.0	1.0	1.6
4	10.0	2.2	3.7	2.65	3.05	1.75	1.8	5.2	1.6	1.0	1.0	1.6
5	12.0	2.2	3.6	3.35	2.95	1.75	1.7	5.3	1.0	1.0	1.0	1.6
6	12.2	2.2	3.5	6.8	2.85	1.75	1.6	4.1	1.2	1.0	1.0	1.6
7	12.0	2.9	3.2	9.4	2.75	1.65	1.6	3.9	1.2	1.0	1.0	1.6
8	10.1	3.1	3.0	10.8	2.55	1.75	1.6	3.1	1.2	1.0	1.1	1.6
9	8.6	2.7	2.7	14.2	2.55	1.65	1.7	2.9	1.0	1.0	3.4	1.5
10	5.9	5.1	2.7	14.5	2.45	1.55	1.8	2.5	1.0	1.0	4.5	1.4
11	4.5	5.8	2.6	14.4	2.45	1.55	1.9	2.8	1.0	1.0	5.4	1.4
12	4.0	6.0	2.6	14.0	2.35	1.55	2.1	2.7	1.0	1.2	4.5	1.4
13	3.6	6.2	2.5	13.6	2.35	1.45	2.5	2.5	1.0	3.0	3.7	1.6
14	3.2	6.9	2.4	13.0	2.25	1.35	2.3	2.4	1.0	3.0	3.2	1.6
15	3.0	7.1	2.4	12.0	2.15	1.25	2.7	2.5	1.0	1.9	3.0	1.7
16	2.9	6.2	2.3	10.1	2.05	1.25	2.6	2.6	1.0	1.3	3.0	1.7
17	2.8	5.2	2.3	8.4	1.95	1.25	2.4	2.6	1.0	1.3	2.8	1.8
18	2.7	4.4	2.2	7.2	1.85	1.15	3.7	2.6	1.0	1.3	2.6	1.9
19	2.6	4.1	2.2	5.6	1.85	1.15	4.6	2.7	1.0	2.2	2.6	2.8
20	2.5	4.1	2.1	5.4	1.75	1.35	3.9	3.3	1.0	4.8	2.6	4.4
21	2.6	4.1	2.2	6.1	1.95	1.75	3.0	2.0	1.0	5.3	2.8	5.8
22	2.5	4.3	2.4	6.8	2.25	1.95	2.8	2.7	1.0	4.2	2.4	6.0
23	2.3	4.7	3.1	6.6	3.55	1.95	2.9	2.5	1.0	2.3	2.4	7.0
24	2.2	4.5	2.9	6.0	3.55	1.75	3.2	2.3	1.0	1.6	2.0	7.8
25	2.2	3.9	2.7	5.1	3.95	1.65	3.5	2.1	1.0	1.4	2.0	8.3
26	2.2	3.5	2.4	4.2	3.75	1.55	3.9	2.0	1.0	1.2	2.0	8.6
27	2.2	3.1	2.9	3.85	3.55	1.45	3.6	1.9	1.0	1.2	2.0	9.6
28	2.1	3.0	3.9	3.7	3.05	1.75	3.2	1.1	1.0	1.2	2.0	10.6
29	2.1	.....	5.0	3.6	2.75	1.95	2.0	1.0	1.0	1.0	1.8	10.8
30	2.2	.....	4.8	3.35	2.25	2.15	2.5	1.0	1.0	1.0	1.8	10.2
31	2.1	.....	4.3	.....	2.05	.....	2.6	1.0	.....	1.0	.....	10.0

Daily gage height, in feet, of Coosa River at Riverside, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1912												
1	9.0	11.6	13.6	16.5	11.2	9.0	4.2	2.5	2.0	2.0	1.7	1.5
2	8.3	11.3	13.2	16.5	10.4	7.8	4.2	2.5	2.0	1.9	1.7	1.5
3	7.8	10.0	11.6	16.0	9.3	5.3	4.3	2.5	1.8	1.8	1.7	1.5
4	7.2	8.0	9.7	15.5	8.0	4.2	4.8	2.5	1.8	2.2	1.6	1.5
5	6.3	6.0	7.2	14.5	6.8	4.0	5.4	2.8	1.8	2.0	1.6	1.8
6	5.3	4.8	7.6	13.6	6.4	4.0	5.0	2.3	1.8	2.6	1.6	4.0
7	4.6	4.4	8.2	11.4	6.4	4.0	7.0	2.2	1.8	3.0	1.6	4.7
8	5.5	4.0	8.6	8.2	7.2	3.8	7.4	2.2	1.8	3.2	1.6	4.7
9	7.6	3.8	9.0	6.0	8.2	3.7	6.5	2.4	1.8	2.4	1.6	4.4
10	8.0	3.8	8.6	5.6	8.3	3.6	5.0	3.6	1.8	2.0	2.4	4.0
11	7.8	4.0	8.0	5.4	7.3	3.3	4.7	6.6	1.8	1.8	2.6	3.4
12	6.9	4.0	7.6	5.2	6.1	3.0	5.6	7.5	1.8	1.7	2.3	3.0
13	6.0	4.0	7.0	5.0	5.4	3.0	6.9	6.5	1.7	1.8	2.0	2.6
14	5.0	4.2	6.6	5.0	5.0	3.5	7.6	5.0	1.7	2.0	1.8	2.0
15	4.6	6.2	11.6	4.8	4.8	4.2	7.0	3.6	1.6	2.2	1.7	2.0
16	4.2	8.8	14.2	6.0	4.4	6.8	5.8	3.0	1.6	2.0	1.7	2.0
17	3.8	10.8	14.3	9.0	4.2	7.8	5.0	3.0	1.9	1.9	1.7	2.0
18	3.5	11.3	14.0	9.4	4.0	6.8	4.8	4.0	2.0	1.8	1.7	2.1
19	3.4	11.2	13.6	9.2	3.8	5.6	4.6	3.8	2.3	2.7	1.6	2.3
20	3.4	10.4	12.0	8.6	3.7	4.0	4.5	3.6	2.2	2.8	1.6	2.6
21	4.0	9.0	10.0	7.6	3.5	3.2	5.2	3.4	2.0	2.8	1.6	2.5
22	4.0	9.0	8.8	10.6	3.4	3.0	5.8	3.4	2.0	4.8	1.6	2.6
23	3.8	9.6	8.6	12.6	3.3	3.0	4.4	3.2	2.3	4.4	1.6	2.8
24	3.5	11.0	10.3	12.5	3.0	3.0	4.0	3.0	2.4	3.0	1.6	3.6
25	3.2	11.6	12.2	11.8	2.8	3.0	3.5	3.0	4.3	2.8	1.6	4.0
26	3.0	12.6	12.4	10.8	2.8	3.2	3.4	3.0	5.3	2.2	1.5	4.3
27	3.0	14.3	12.0	10.0	2.8	4.0	3.4	3.0	4.8	2.0	1.5	4.5
28	3.2	14.2	11.6	10.5	2.9	5.8	3.0	2.8	3.3	2.0	1.5	4.2
29	6.3	13.8	15.0	10.7	3.0	6.9	2.8	2.6	2.6	1.8	1.5	3.7
30	9.2	.....	16.0	12.0	5.4	5.9	2.6	2.3	2.0	1.8	1.5	3.7
31	11.4	.....	16.0	.....	8.0	.....	2.5	2.2	.....	1.7	.....	3.8
1913												
1	4.0	11.2	14.2	12.0	3.0	2.7	2.2	3.4	1.2	5.3	1.0	3.8
2	4.2	11.0	14.4	10.8	3.0	2.7	2.2	3.0	1.3	6.2	.95	4.8
3	4.5	8.3	13.7	8.5	2.9	3.2	2.1	2.7	1.3	5.1	1.0	5.0
4	4.4	8.6	12.2	6.2	2.8	3.2	2.0	2.4	1.3	3.3	.95	3.8
5	4.6	8.8	12.4	5.8	2.7	3.4	1.8	2.2	1.2	3.0	1.0	3.2
6	4.7	8.2	9.7	5.4	2.5	3.4	1.6	1.9	1.1	1.9	.95	2.6
7	4.6	7.3	7.6	5.0	2.6	3.5	1.6	1.8	1.2	1.8	1.0	2.2
8	4.5	6.0	6.0	4.8	2.6	3.3	1.6	1.7	.95	1.4	.85	2.0
9	4.3	5.2	5.5	4.5	2.5	3.9	1.5	2.9	1.0	1.2	.9	2.0
10	4.3	5.0	6.8	4.5	2.7	3.8	1.6	3.3	.95	1.2	1.2	2.2
11	4.1	4.6	7.6	4.4	2.8	3.8	1.5	3.0	1.0	1.1	1.3	2.2
12	4.5	11.0	8.0	4.4	2.7	4.2	1.5	2.6	.95	1.0	1.1	2.0
13	5.4	13.4	8.9	4.3	2.6	3.6	1.4	1.9	.9	1.0	1.2	2.0
14	6.2	13.6	12.0	4.4	2.5	3.0	1.6	1.8	.85	.95	1.0	2.0
15	6.6	13.2	14.4	4.4	2.5	2.5	1.8	1.8	.8	1.0	1.0	2.0
16	5.9	11.7	14.5	3.9	2.4	2.3	2.1	1.6	.75	.95	.95	1.8
17	5.0	9.0	14.4	4.0	2.4	2.2	2.3	2.0	.85	1.0	.95	1.8
18	4.6	7.0	14.0	4.0	2.4	2.1	2.0	2.5	.95	1.0	1.0	1.7
19	5.5	5.7	13.7	3.7	2.3	1.9	1.7	2.2	1.0	1.0	1.0	1.6
20	5.7	5.5	13.6	3.6	2.4	2.0	1.6	2.0	.95	1.0	1.0	1.4
21	5.6	6.2	13.8	3.5	2.4	1.9	1.5	1.8	.95	1.0	1.0	1.4
22	5.5	7.3	14.0	3.4	2.4	1.8	1.4	1.6	.95	1.4	1.0	1.4
23	4.1	7.5	12.1	3.2	2.5	1.7	1.2	1.5	1.2	1.5	1.0	1.5
24	5.0	7.8	10.6	3.3	3.8	2.0	1.7	1.7	1.2	1.4	1.0	1.4
25	7.0	7.0	9.0	3.2	4.2	2.4	1.7	1.7	1.4	1.2	1.0	1.8
26	7.9	5.9	7.9	3.3	5.2	2.2	1.7	1.5	1.3	1.1	1.0	2.4
27	10.3	4.4	9.2	3.4	5.2	2.2	1.8	1.5	1.3	1.0	.9	2.5
28	12.4	12.2	12.0	3.3	5.0	2.0	2.4	1.3	1.2	1.0	.9	2.8
29	12.7	.....	12.9	3.2	4.9	1.7	3.5	1.2	1.3	.95	.9	2.8
30	12.6	.....	13.3	3.2	3.2	1.8	4.4	1.2	5.3	.95	1.2	3.5
31	12.2	.....	12.8	.....	2.8	.....	3.6	1.2	.....	1.0	.....	4.0

Daily gage height, in feet, of Coosa River at Riverside, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1914												
1	4.2	4.0	2.7	6.6	3.0	1.2	0.8	1.8	1.7	0.9	0.8	1.6
2	4.2	5.2	2.7	7.6	2.4	1.2	0.8	1.8	1.6	.8	.8	2.4
3	3.8	5.0	2.6	7.0	2.8	1.2	1.0	1.8	1.6	.8	.8	3.1
4	3.7	4.6	2.6	6.6	2.7	1.2	1.0	1.8	1.4	.7	.8	3.9
5	3.6	3.6	2.4	4.8	2.6	1.2	1.2	1.6	1.3	.7	.8	5.6
6	3.4	3.0	2.2	4.2	2.2	1.2	1.2	1.6	1.2	.7	.8	8.0
7	3.2	3.4	2.2	4.5	2.4	1.6	1.2	1.4	1.0	.7	.8	9.4
8	2.8	5.0	2.2	5.6	2.8	1.8	1.2	1.4	1.0	.85	.8	9.3
9	2.6	6.0	2.0	6.2	3.2	1.8	1.2	1.4	.8	.9	.8	7.6
10	2.4	6.0	2.0	6.3	3.0	1.6	1.0	1.4	.8	1.1	.85	5.6
11	2.3	5.2	2.0	6.4	2.8	1.5	1.0	1.6	.8	1.6	1.1	4.3
12	2.2	4.2	2.5	5.6	2.8	1.4	1.4	2.0	.8	1.8	1.5	3.0
13	2.0	3.8	2.6	4.5	2.6	1.3	2.0	3.2	.8	1.6	1.4	2.9
14	1.8	4.2	3.0	5.5	2.5	1.3	2.0	4.2	.8	1.6	1.2	3.5
15	1.8	4.0	3.0	8.8	2.4	1.4	1.8	3.8	.8	1.8	1.2	3.8
16	1.8	3.8	3.2	11.8	2.0	1.4	1.6	3.6	.8	2.0	1.5	3.6
17	1.7	3.6	3.0	11.8	1.8	1.6	1.4	3.0	.8	4.5	2.1	3.4
18	1.6	3.5	2.8	11.6	1.8	1.8	3.8	2.8	.8	5.9	2.5	2.9
19	1.6	3.4	2.6	10.2	1.8	1.6	5.4	2.0	.7	5.3	2.6	2.5
20	1.7	3.2	2.5	8.0	1.8	1.4	5.6	1.8	.7	3.9	2.1	2.3
21	1.6	3.0	2.4	5.2	1.7	1.4	5.0	1.6	1.2	2.6	1.8	2.4
22	1.5	3.0	2.5	5.4	1.6	1.4	3.8	1.3	2.2	1.9	1.6	2.5
23	1.5	2.9	2.6	5.6	1.5	1.5	2.6	1.3	1.7	1.6	1.4	2.7
24	1.4	2.8	2.7	5.0	1.5	1.4	2.0	1.3	1.4	1.4	1.2	3.3
25	1.5	3.0	2.6	4.8	1.5	1.3	1.6	1.4	1.3	1.3	1.0	4.6
26	1.6	3.2	2.6	4.0	1.5	1.3	1.6	1.5	1.2	1.2	.95	6.9
27	1.7	3.0	2.5	4.0	1.4	1.2	1.5	1.5	1.2	1.0	.9	11.0
28	1.8	2.8	2.4	3.8	1.4	1.0	1.4	1.6	1.0	1.0	.9	11.6
29	1.8	.....	2.4	3.6	1.3	1.0	1.8	1.8	1.0	1.0	1.3	15.2
30	1.8	.....	2.6	3.2	1.2	.8	2.2	1.8	1.0	.85	1.9	12.9
31	2.4	.....	3.0	.....	1.2	.....	2.2	1.8	.....	.8	.....	12.5

Daily gage height, in feet, of Coosa River at Riverside, Ala.—Continued.

Date.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1915									
1	11.5	7.3	6.0	3.4	2.0	2.5	2.9	1.2	1.8
2	9.6	12.0	5.3	3.4	2.0	2.4	3.0	1.2	1.8
3	6.6	13.8	4.9	3.4	1.8	2.2	3.2	1.3	1.8
4	5.2	14.1	4.5	3.4	1.8	2.2	4.4	1.4	1.9
5	4.5	14.0	6.6	3.3	1.8	2.2	5.6	1.4	3.9
6	4.8	14.0	7.4	3.2	1.8	2.2	6.1	1.4	6.5
7	7.7	12.8	8.5	3.0	4.6	2.2	6.2	1.3	7.2
8	8.8	11.6	8.1	3.0	9.9	2.3	5.9	1.3	5.8
9	9.5	9.0	7.4	2.8	10.4	2.2	4.9	1.3	4.9
10	8.9	7.0	6.6	2.8	10.0	2.2	4.6	1.3	3.1
11	7.8	6.0	5.8	2.6	8.8	2.1	3.9	1.3	2.4
12	6.9	5.4	5.1	2.6	7.6	2.0	3.6	1.3	1.9
13	6.4	4.7	4.4	2.6	6.0	2.0	3.4	1.3	1.6
14	6.4	4.6	4.4	2.5	4.9	2.2	3.4	1.9	1.4
15	6.5	5.2	4.3	2.4	4.5	2.8	2.9	1.9	1.4
16	6.2	6.0	4.1	2.4	4.2	3.2	2.9	2.2	1.4
17	6.1	6.5	4.0	2.4	3.7	2.9	2.8	2.2	1.6
18	6.6	7.0	3.8	2.4	3.5	2.8	2.8	2.4	1.5
19	7.1	6.7	3.6	2.3	3.2	2.8	2.4	2.7	1.4
20	7.7	5.4	3.6	2.3	2.7	2.6	2.1	3.0	1.4
21	7.9	5.0	3.9	2.3	2.4	2.4	1.8	3.7	1.3
22	7.4	4.5	4.2	2.3	2.3	2.0	1.8	3.9	1.2
23	6.4	4.2	3.7	2.3	2.2	1.8	1.6	3.6	1.2
24	5.6	5.3	3.5	2.2	2.2	1.6	1.4	3.2	1.4
25	6.1	6.2	3.4	2.1	2.0	1.6	1.4	2.4	1.4
26	7.4	7.5	3.4	2.1	2.0	1.5	1.4	2.0	1.4
27	8.3	6.9	3.4	2.1	2.0	1.5	1.3	2.0	1.4
28	7.8	6.5	3.3	2.0	2.4	1.5	1.3	2.0	1.2
29	7.1	.....	3.4	2.0	3.1	1.8	1.3	1.9	1.0
30	6.2	.....	3.5	2.0	3.2	1.8	1.2	1.8	1.0
31	6.1	.....	3.5	.....	2.7	.....	1.2	1.8	.....

Note.—At present all stream flow computations by the United States Geological Survey are prepared for the climatic year ending September 30. The year 1916 will begin with October 1, 1915, thus including three months of 1915.

Rating table for Coosa River at Riverside, Ala., for 1896.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
0.5	1,400	1.5	3,090	2.4	5,500	3.6	9,300
.6	1,500	1.6	3,320	2.5	5,800	3.8	9,980
.7	1,630	1.7	3,560	2.6	6,100	4.0	10,680
.8	1,780	1.8	3,820	2.7	6,400	4.2	11,390
.9	1,930	1.9	4,080	2.8	6,708	4.4	12,110
1.0	2,100	2.0	4,360	2.9	7,010	4.6	12,840
1.1	2,280	2.1	4,630	3.0	7,320	4.8	13,580
1.2	2,480	2.2	4,920	3.2	7,970	5.0	14,330
1.3	2,680	2.3	5,200	3.4	8,630	5.2	15,100
1.4	2,880						

Rating table for Coosa River at Riverside, Ala., for 1897.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
0.4	1,350	1.4	3,070	3.0	7,530	7.0	20,566
.5	1,400	1.6	3,540	3.2	8,178	8.0	23,826
.6	1,500	1.8	4,020	3.4	8,830	9.0	27,086
.7	1,650	2.0	4,520	3.6	9,482	10.0	30,346
.8	1,820	2.2	5,100	3.8	10,134	11.0	33,606
.9	2,010	2.4	5,700	4.0	10,786	12.0	36,866
1.0	2,210	2.6	6,300	5.0	14,046	13.0	40,126
1.2	2,630	2.8	6,910	6.0	17,306	14.0	43,386

Rating table for Coosa River at Riverside, Ala., for 1898.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
0.9	2,140	2.5	5,540	5.2	14,016	8.4	24,992
1.0	2,320	2.6	5,780	5.4	14,702	8.6	25,678
1.1	2,520	2.7	6,030	5.6	15,388	8.8	26,364
1.2	2,720	2.8	6,280	5.8	16,074	9.0	27,050
1.3	2,925	2.9	6,540	6.0	16,760	9.2	27,800
1.4	3,130	3.0	6,800	6.2	17,446	9.4	28,550
1.5	3,340	3.2	7,360	6.4	18,132	9.6	29,380
1.6	3,550	3.4	7,950	6.6	18,818	9.8	30,250
1.7	3,760	3.6	8,570	6.8	19,540	10.0	31,200
1.8	3,970	3.8	9,220	7.0	20,190	11.0	37,600
1.9	4,185	4.0	9,900	7.2	20,876	12.0	44,800
2.0	4,400	4.2	10,586	7.4	21,562	13.0	52,000
2.1	4,620	4.4	11,272	7.6	22,248	14.0	59,200
2.2	4,840	4.6	11,958	7.8	22,934	15.0	66,400
2.3	5,070	4.8	12,644	8.0	23,620	16.0	73,600
2.4	5,300	5.0	13,330	8.2	24,306		

Rating table for Coosa River at Riverside, Ala., for 1899.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
0.9	2,330	2.6	5,970	5.4	15,480	8.6	27,320
1.0	2,460	2.7	6,250	5.6	16,220	8.8	28,060
1.1	2,600	2.8	6,530	5.8	16,960	9.0	28,800
1.2	2,760	2.9	6,810	6.0	17,700	9.2	29,540
1.3	2,920	3.0	7,100	6.2	18,440	9.4	30,280
1.4	3,100	3.2	7,700	6.4	19,180	9.6	31,020
1.5	3,300	3.4	8,330	6.6	19,920	9.8	31,760
1.6	3,500	3.6	8,970	6.8	20,660	10.0	32,500
1.7	3,720	3.8	9,620	7.0	21,400	11.0	36,200
1.8	3,940	4.0	10,300	7.2	22,140	12.0	39,900
1.9	4,160	4.2	11,040	7.4	22,880	13.0	43,600
2.0	4,400	4.4	11,780	7.6	23,620	14.0	47,300
2.1	4,600	4.6	12,520	7.8	24,360	15.0	51,000
2.2	4,900	4.8	13,260	8.0	25,100	16.0	54,700
2.3	5,160	5.0	14,000	8.2	25,840	17.0	58,400
2.4	5,430	5.2	14,740	8.4	26,580	18.0	62,100
2.5	5,700						

Rating table for Coosa River at Riverside, Ala., for 1901 and 1902.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
1.0	2,460	2.7	6,250	5.6	15,900	8.8	28,800
1.1	2,610	2.8	6,530	5.8	16,600	9.0	29,100
1.2	2,760	2.9	6,845	6.0	17,300	9.2	29,900
1.3	2,930	3.0	7,100	6.2	18,060	9.4	30,700
1.4	3,100	3.2	7,700	6.4	18,820	9.6	31,500
1.5	3,300	3.4	8,330	6.6	19,580	9.8	32,300
1.6	3,500	3.6	8,970	6.8	20,340	10.0	33,100
1.7	3,720	3.8	9,620	7.0	21,100	11.0	37,100
1.8	3,940	4.0	10,300	7.2	21,900	12.0	41,100
1.9	4,170	4.2	11,000	7.4	22,700	13.0	45,100
2.0	4,400	4.4	11,700	7.6	23,500	14.0	49,100
2.1	4,650	4.6	12,400	7.8	24,300	15.0	53,100
2.2	4,900	4.8	13,100	8.0	25,100	16.0	57,100
2.3	5,165	5.0	13,800	8.2	25,900	17.0	61,100
2.4	5,430	5.2	14,500	8.4	26,700	18.0	65,100
2.5	5,700	5.4	15,200	8.6	27,500	19.0	69,100
2.6	5,970						

Rating table for Coosa River at Riverside, Ala., for 1903.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
1.00	2,620	2.50	6,160	5.00	15,090	8.00	27,730
1.10	2,800	2.60	6,460	5.20	15,890	8.20	28,590
1.20	2,990	2.70	6,770	5.40	16,700	8.40	29,450
1.30	3,180	2.80	7,090	5.60	17,520	8.60	30,310
1.40	3,380	2.90	7,420	5.80	18,340	8.80	31,170
1.50	3,590	3.00	7,750	6.00	19,180	9.00	32,030
1.60	3,810	3.20	8,410	6.20	20,020	10.00	36,330
1.70	4,040	3.40	9,090	6.40	20,860	11.00	40,630
1.80	4,270	3.60	9,790	6.60	21,710	12.00	44,930
1.90	4,510	3.80	10,500	6.80	22,570	13.00	49,230
2.00	4,750	4.00	11,240	7.00	23,430	14.00	53,530
2.10	5,010	4.20	11,990	7.20	24,290	15.00	57,830
2.20	5,290	4.40	12,750	7.40	25,150	16.00	62,130
2.30	5,580	4.60	13,520	7.60	26,010	17.00	66,430
2.40	5,870	4.80	14,300	7.80	26,870		

Rating table for Coosa River at Riverside, Ala., for 1904 and 1905.

Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.
Feet.	*Second-feet.*	*Feet.*	*Second-feet.*	*Feet.*	*Second-feet.*	*Feet.*	*Second-feet.*
0.20	1,150	1.60	3,430	2.90	6,835	4.40	11,920
.40	1,300	1.70	3,655	3.00	7,135	4.60	12,640
.50	1,450	1.80	3,890	3.10	7,440	4.80	13,360
.60	1,605	1.90	4,130	3.20	7,750	5.00	14,080
.70	1,760	2.00	4,380	3.30	8,070	5.20	14,800
.80	1,920	2.10	4,635	3.40	8,400	5.40	15,530
.90	2,085	2.20	4,895	3.50	8,740	5.60	16,270
1.00	2,255	2.30	5,160	3.60	9,080	5.80	17,010
1.10	2,435	2.40	5,425	3.70	9,430	6.00	17,750
1.20	2,620	2.50	5,695	3.80	9,780	6.20	18,490
1.30	2,810	2.60	5,970	3.90	10,130	6.40	19,230
1.40	3,010	2.70	6,250	4.00	10,480	6.60	19,970
1.50	3,215	2.80	6,540	4.20	11,200	6.80	20,710

The above table is based on discharge measurements made during 1904-5 and several older measurements. It is well defined between gage heights 0.4 foot and 4 feet. Above 4 feet the table is not so well defined, as the high-water measurements are more scattered. The high-water discharge is only approximate.

Rating table for Coosa River at Riverside, Ala., for 1906, 1907 and 1908.

Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.
Feet.	*Sec.-ft.*	*Feet.*	*Sec.-ft.*	*Feet.*	*Sec.-ft.*	*Feet.*	*Sec.-ft.*
0.90	2,085	2.30	5,160	3.70	9,340	8.20	18,270
1.00	2,255	2.40	5,425	3.80	9,660	8.40	19,050
1.10	2,435	2.50	5,695	3.90	9,980	8.60	19,840
1.20	2,620	2.60	5,970	4.00	10,300	8.80	20,640
1.30	2,810	2.70	6,250	4.20	10,970	7.00	21,440
1.40	3,010	2.80	6,540	4.40	11,660	8.00	25,600
1.50	3,215	2.90	6,835	4.60	12,380	9.00	29,800
1.60	3,430	3.00	7,135	4.80	13,070	10.00	34,060
1.70	3,655	3.10	7,440	5.00	13,800	11.00	38,320
1.80	3,890	3.20	7,750	5.20	14,540	12.00	42,580
1.90	4,130	3.30	8,060	5.40	15,280	13.00	46,840
2.00	4,380	3.40	8,380	5.60	16,020	14.00	51,160
2.10	4,635	3.50	8,700	5.80	16,760	15.00	55,360
2.20	4,895	3.60	9,020	6.00	17,500		

Note.—The above table is not applicable for obstructed-channel conditions. It is based on 13 discharge measurements made during 1905-1907. It is well defined.

Daily discharge, in second-feet, of Coosa River at Riverside, Ala.—Cont'd.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1909												
1	7,140	6,400	44,700	25,200	40,000	10,300	19,800	11,000	8,700	3,220	3,010	3,010
2	6,840	6,110	42,600	18,300	42,600	13,800	15,600	13,400	8,380	3,660	3,010	3,010
3	6,980	5,700	37,500	14,500	44,300	16,000	13,100	25,200	5,970	3,220	2,810	3,010
4	7,600	5,560	30,700	13,100	43,400	37,500	11,000	26,000	5,970	3,010	3,010	3,220
5	11,000	5,420	23,900	12,400	40,900	45,100	9,660	28,000	5,700	3,010	3,010	3,220
6	16,800	5,560	16,000	13,100	30,700	49,400	8,380	31,500	4,130	2,910	3,010	3,220
7	28,900	9,180	17,500	13,100	23,100	47,700	8,060	34,500	3,890	2,810	3,010	3,660
8	27,300	11,000	19,400	14,200	19,000	46,800	9,980	29,000	4,130	2,810	3,010	4,640
9	21,800	12,000	22,300	17,500	14,500	44,300	17,500	16,800	4,130	2,810	2,810	11,300
10	18,300	17,900	34,900	17,900	14,500	42,600	17,500	11,700	3,890	2,810	2,810	16,000
11	13,100	24,800	45,100	16,800	14,500	35,800	21,400	10,600	4,260	2,810	2,810	12,000
12	10,600	32,400	52,000	14,500	19,000	25,600	17,900	9,660	4,380	2,810	2,810	10,300
13	9,340	35,800	65,600	13,100	17,500	23,100	13,100	8,060	4,130	2,810	2,810	8,380
14	9,660	41,700	75,000	15,300	14,500	21,400	11,700	7,750	4,130	2,620	2,810	8,380
15	13,100	47,700	75,000	16,800	11,700	20,600	10,300	9,020	4,130	3,430	2,810	12,700
16	14,200	51,500	70,700	18,300	11,000	15,300	11,000	9,020	4,130	3,660	2,810	13,800
17	22,300	50,700	66,900	16,800	13,800	13,800	11,700	8,380	3,390	12,700	2,810	13,100
18	29,000	49,400	67,300	13,800	13,100	13,800	9,020	7,440	3,660	14,500	2,810	10,300
19	32,400	48,500	66,400	11,700	12,400	12,400	8,060	7,140	4,130	9,660	2,810	7,750
20	31,500	47,700	66,400	11,000	12,400	11,000	8,060	6,250	4,380	5,420	2,810	6,540
21	27,300	46,000	69,400	10,300	16,000	11,700	7,140	5,970	4,380	4,640	2,810	4,640
22	20,600	39,200	66,900	9,660	23,500	17,500	6,540	5,160	4,380	4,130	2,810	4,640
23	14,500	34,900	62,200	14,500	23,100	18,300	6,540	4,900	4,380	3,660	2,810	5,700
24	11,700	39,200	55,400	21,400	19,800	20,600	6,250	4,640	4,130	3,660	2,910	5,700
25	10,300	46,800	39,200	27,300	18,300	23,900	5,970	4,380	4,380	3,660	3,010	7,140
26	9,660	47,700	29,000	39,200	18,300	26,400	7,440	4,130	4,900	3,430	3,010	7,750
27	8,700	46,800	27,700	41,700	17,500	23,100	7,440	4,130	5,420	3,220	3,010	9,020
28	8,060	45,600	26,900	40,400	16,800	19,000	6,250	4,130	4,380	3,220	3,010	8,700
29	7,750	.....	25,200	29,800	13,800	19,800	5,420	3,890	3,660	3,010	3,010	7,140
30	7,600	.....	27,300	27,300	12,400	19,800	6,540	4,130	3,430	3,010	3,010	4,640
31	7,140	.....	27,700	.....	11,700	.....	6,840	5,970	.....	3,010	.....	4,380
1910												
1	4,380	8,700	17,900	4,900	5,420	10,300	21,000	6,540	4,900	2,810	2,260	2,720
2	4,380	8,060	22,700	4,900	5,420	8,700	27,700	6,540	5,700	2,810	2,260	2,810
3	4,380	7,140	29,000	4,900	5,420	7,440	35,300	6,540	7,140	3,010	2,260	2,810
4	4,380	6,540	28,500	4,900	5,160	6,840	42,200	6,540	9,020	3,010	2,260	2,720
5	4,900	6,250	23,500	4,640	5,160	6,840	39,600	6,250	10,300	3,220	2,260	3,010
6	4,900	6,250	18,700	4,640	4,900	7,140	36,600	7,140	11,000	3,890	2,260	3,890
7	9,020	6,250	15,600	4,380	4,900	11,300	35,300	10,600	12,000	3,890	2,440	7,440
8	13,800	5,970	12,700	4,130	4,900	16,800	37,900	13,800	10,300	4,640	2,440	16,400
9	16,800	5,700	11,000	4,130	5,160	17,100	37,000	13,800	7,750	4,640	2,440	18,700
10	15,300	5,420	10,300	4,130	6,540	17,500	31,100	12,000	6,840	4,380	2,440	14,900
11	12,700	5,420	12,700	4,130	9,020	20,200	27,700	9,340	5,700	4,380	2,440	10,600
12	10,300	5,160	14,900	4,380	16,000	19,400	27,300	7,140	5,160	3,890	2,440	7,140
13	8,060	7,140	13,800	4,380	17,500	19,000	24,800	5,970	4,380	3,660	2,440	4,900
14	7,140	8,380	12,700	4,380	12,000	19,000	23,500	5,700	3,660	3,430	2,440	4,380
15	6,250	8,380	10,600	4,640	9,660	18,300	20,600	5,700	3,430	3,430	2,440	3,890
16	6,840	8,060	9,660	4,900	6,540	17,500	16,400	5,700	3,430	3,220	2,440	3,660
17	7,140	8,060	8,700	8,700	5,700	13,100	17,500	5,420	3,220	3,220	2,440	3,430
18	6,540	21,800	7,750	13,800	8,700	10,300	15,600	5,160	3,010	3,010	2,440	3,430
19	6,540	26,900	7,140	11,000	17,500	9,660	11,000	4,900	3,010	3,010	2,440	3,220
20	7,140	33,600	7,140	10,300	27,700	9,660	9,340	4,640	3,010	2,910	2,440	3,220
21	7,440	32,800	6,840	8,700	34,900	9,660	9,020	4,900	2,910	2,810	2,440	3,220
22	8,700	26,400	6,540	7,440	39,600	10,300	9,020	4,900	2,810	2,810	2,440	3,220
23	8,380	20,200	6,250	7,140	43,000	9,660	8,700	4,640	2,810	2,620	2,440	3,430
24	8,060	16,400	6,250	6,540	46,000	8,380	8,380	4,380	2,810	2,620	2,440	3,430
25	8,060	14,900	5,700	6,250	43,400	8,060	8,380	4,380	2,810	2,620	2,440	3,220
26	8,700	13,400	5,700	5,970	42,200	7,140	8,060	4,380	2,810	2,440	2,440	3,010
27	8,700	12,400	5,700	5,700	38,300	7,750	7,750	4,130	2,620	2,440	2,440	3,010
28	9,340	11,700	5,160	5,700	34,100	12,000	7,140	4,130	2,620	2,440	2,440	3,430
29	9,340	.....	5,160	5,420	27,300	13,800	7,140	4,380	2,620	2,440	2,530	3,660
30	9,020	.....	5,160	5,420	21,000	21,400	7,140	4,380	2,810	2,440	2,620	4,130
31	8,700	.....	5,160	.....	15,600	.....	6,840	4,640	.....	2,440	.....	4,130

Note.—These discharges were obtained from a well-defined rating curve.

Daily discharge, in second-feet, of Coosa River at Riverside, Ala.—Cont'd.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1911												
1	4,380	4,900	6,840	9,820	7,600	4,260	4,380	5,970	2,260	2,260	2,260	3,430
2	8,060	4,640	8,380	7,750	7,600	4,260	4,130	7,750	2,260	2,260	2,260	3,430
3	25,600	4,380	9,660	6,090	7,290	4,010	3,890	11,000	2,260	2,260	2,260	3,430
4	34,100	4,900	9,340	6,110	7,290	3,770	3,890	14,500	2,260	2,260	2,260	3,430
5	42,600	4,900	9,020	9,820	6,980	3,770	3,660	14,900	2,260	2,260	2,260	3,430
6	43,400	4,900	8,700	20,600	6,690	3,770	3,430	10,600	2,620	2,260	2,260	3,430
7	42,600	6,840	7,750	31,500	6,400	3,540	3,430	9,980	2,620	2,260	2,260	3,430
8	34,500	7,440	7,140	37,500	5,830	3,770	3,430	7,440	2,620	2,260	2,440	3,430
9	28,100	9,340	6,250	52,000	5,830	3,540	3,660	4,380	2,260	2,260	8,380	3,220
10	17,100	14,200	6,250	53,200	5,560	3,320	3,890	5,700	2,260	2,260	12,000	3,010
11	12,000	16,800	5,970	52,800	5,560	3,320	4,130	6,540	2,260	2,260	15,300	3,010
12	10,300	17,500	5,970	51,100	5,290	3,320	4,640	6,250	2,260	2,620	12,000	3,010
13	9,020	18,300	5,700	49,400	5,290	3,110	5,700	5,700	2,260	7,140	9,340	3,430
14	7,750	21,000	5,420	46,800	5,030	2,910	5,160	5,420	2,260	7,140	7,750	3,430
15	7,140	21,800	5,420	42,600	4,760	2,720	6,250	5,700	2,260	4,130	7,140	3,660
16	6,840	18,300	5,160	34,500	4,510	2,720	5,970	5,970	2,260	2,810	7,140	3,660
17	6,540	14,500	5,160	27,300	4,260	2,720	8,380	5,970	2,260	2,810	6,540	3,890
18	6,250	11,700	4,900	22,300	4,010	2,530	9,340	5,970	2,260	2,810	5,970	4,130
19	5,970	10,600	4,900	16,000	4,010	2,530	12,400	6,250	2,260	4,900	5,970	6,540
20	5,700	10,600	4,640	15,300	3,770	2,910	9,980	8,060	2,260	13,100	5,970	11,700
21	5,970	10,600	4,900	17,900	4,260	3,770	7,140	4,380	2,260	14,900	5,700	15,600
22	5,700	11,300	5,420	20,600	5,030	4,260	6,540	6,250	2,260	11,000	5,420	17,500
23	5,160	12,700	7,440	19,800	8,860	4,260	6,840	5,700	2,260	5,160	5,420	21,400
24	4,900	12,000	6,840	17,500	8,860	3,770	7,750	5,160	2,260	3,430	4,380	24,800
25	4,900	9,980	6,250	14,200	10,100	3,540	8,700	4,640	2,260	3,010	4,380	26,900
26	4,900	8,700	5,420	11,000	9,500	3,320	9,980	4,380	2,260	2,620	4,380	28,100
27	4,900	7,440	6,840	9,820	8,860	3,110	9,020	4,130	2,260	2,620	4,380	32,400
28	4,640	7,140	9,980	9,340	7,290	3,770	7,750	2,440	2,260	2,620	4,380	36,600
29	4,640	.....	13,800	9,020	6,400	4,260	4,380	2,260	2,260	2,260	3,890	37,500
30	4,900	.....	13,100	8,220	5,030	4,760	5,700	2,260	2,260	2,260	3,890	34,900
31	4,640	.....	11,300	.....	4,510	.....	5,970	2,260	.....	2,260	.....	34,100
1912												
1	29,800	40,900	49,400	61,800	39,200	29,800	11,000	5,700	4,380	4,380	3,660	3,220
2	26,900	39,600	47,700	61,800	35,800	24,800	11,000	5,700	4,380	4,130	3,660	3,220
3	24,800	34,100	40,900	59,600	31,100	14,900	11,300	5,700	3,890	3,890	3,660	3,220
4	22,300	25,600	32,800	57,500	25,600	11,000	13,100	5,700	3,890	4,900	3,430	3,220
5	18,700	17,500	22,300	53,200	20,600	10,300	15,300	5,700	3,890	4,380	3,430	3,890
6	14,900	13,100	23,900	49,400	19,000	10,300	13,800	5,160	3,890	5,970	3,430	10,300
7	12,400	11,700	26,400	40,000	19,000	10,300	21,400	4,900	3,890	7,140	3,430	12,700
8	15,600	10,300	28,100	26,400	22,700	9,660	23,100	4,900	3,890	7,750	3,430	12,700
9	23,900	9,660	29,800	17,500	26,400	9,340	19,400	5,420	3,890	5,420	3,430	11,700
10	25,600	9,660	28,100	16,000	26,900	9,020	13,800	9,020	3,890	4,380	5,420	10,300
11	24,800	10,300	25,600	15,300	22,700	8,060	12,700	19,800	3,890	3,890	5,970	8,380
12	21,000	10,300	23,900	14,500	17,900	7,140	16,000	23,500	3,890	3,660	5,160	7,140
13	17,500	10,300	21,400	13,800	15,300	7,140	21,000	19,400	3,660	3,890	4,380	5,970
14	13,800	11,000	19,800	13,800	13,800	8,700	23,900	13,800	3,660	4,380	3,890	4,380
15	12,400	18,300	48,900	13,100	13,100	11,000	21,400	9,020	3,430	4,900	3,660	4,380
16	11,000	29,000	52,000	17,500	11,700	20,600	16,800	7,140	3,430	4,380	3,660	4,380
17	9,660	37,500	52,400	29,800	11,000	24,800	13,800	7,140	3,430	4,130	3,660	4,380
18	8,700	39,600	51,100	31,500	10,300	20,600	13,100	10,300	4,380	3,890	3,660	4,640
19	8,380	39,200	49,400	30,700	9,660	16,000	12,400	9,660	5,160	6,250	3,430	5,160
20	8,380	35,800	42,600	28,100	9,340	10,300	12,000	9,020	4,900	6,540	3,430	5,970
21	10,300	29,800	34,100	23,900	8,700	7,750	14,500	8,380	4,380	9,660	3,430	5,700
22	10,300	29,800	29,000	36,600	8,380	7,140	16,800	8,380	4,380	13,100	3,430	5,970
23	9,660	32,400	28,100	45,100	8,060	7,140	11,700	7,750	5,160	11,700	3,430	6,540
24	8,700	38,300	35,300	44,700	7,140	7,140	10,300	7,140	5,420	7,140	3,430	9,020
25	7,750	40,900	43,400	41,700	6,540	7,140	8,700	7,140	11,300	6,540	3,430	10,300
26	7,140	45,100	44,300	37,500	6,540	7,750	8,380	7,140	14,900	4,900	3,220	11,300
27	7,140	52,400	42,600	34,100	6,540	10,300	8,380	7,140	13,100	4,380	3,220	12,000
28	7,750	52,000	40,900	36,200	6,840	16,800	7,140	6,540	8,060	4,380	3,220	11,000
29	18,700	50,700	55,400	37,000	7,140	21,000	6,540	5,970	5,970	3,890	3,220	9,340
30	30,700	.....	59,600	42,600	15,300	17,100	5,970	4,900	4,380	3,890	3,220	9,340
31	40,000	.....	59,600	.....	25,600	.....	5,700	4,900	.....	3,660	.....	9,660

NOTE.—Daily discharge computed from a well-defined rating curve.

Daily discharge, in second-feet, of Coosa River at Riverside, Ala.—Cont'd.

Day.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1913												
1	10,300	39,200	52,000	42,600	7,140	6,250	4,900	8,380	2,620	14,900	2,260	9,660
2	11,000	38,300	52,800	37,500	7,140	6,250	4,900	7,140	2,810	18,300	2,170	13,100
3	12,000	26,900	40,800	27,700	6,840	7,750	4,640	6,250	2,810	14,200	2,260	13,800
4	11,700	28,100	47,700	18,300	6,540	7,750	4,380	5,420	2,810	8,060	2,170	9,660
5	12,400	29,000	44,300	16,800	6,250	8,380	3,890	4,900	2,620	7,140	2,260	7,750
6	12,700	26,400	32,800	15,300	5,700	8,380	3,430	4,130	2,440	4,130	2,170	5,970
7	12,400	22,700	23,900	13,800	5,970	8,700	3,430	3,890	2,620	3,890	2,260	4,900
8	12,000	17,500	17,500	13,100	5,970	8,060	3,430	3,660	2,170	3,010	2,000	4,380
9	11,300	14,500	15,600	12,000	5,700	9,980	3,220	6,840	2,260	2,620	2,080	4,380
10	11,300	13,800	20,600	12,000	6,250	9,660	3,430	8,060	2,170	2,620	2,620	4,900
11	10,600	12,400	23,900	11,700	6,540	9,660	3,220	7,140	2,260	2,440	2,810	4,900
12	12,000	38,300	25,600	11,700	6,250	11,000	3,220	5,970	2,170	2,260	2,440	4,380
13	15,300	48,500	29,400	11,300	5,970	9,020	3,010	4,130	2,080	2,260	2,620	4,380
14	18,300	49,400	42,600	11,700	5,970	7,140	3,430	3,890	2,000	2,170	2,260	4,380
15	19,800	47,700	52,800	11,700	5,700	5,700	3,890	3,890	1,920	2,260	2,260	4,380
16	17,100	41,300	53,200	9,980	5,420	5,160	4,640	3,430	1,840	2,170	2,170	3,890
17	13,800	29,800	52,800	10,300	5,420	4,900	5,160	4,380	2,000	2,260	2,170	3,890
18	12,400	21,400	51,100	10,300	5,420	4,640	4,380	5,700	2,170	2,260	2,260	3,660
19	15,600	16,400	49,800	9,340	5,160	4,130	3,660	4,900	2,260	2,260	2,260	3,430
20	16,400	15,600	49,400	9,020	5,420	4,380	3,430	4,380	2,170	2,260	2,260	3,010
21	16,000	18,300	50,200	8,700	5,420	4,130	3,220	3,890	2,170	2,260	2,260	3,010
22	15,600	22,700	51,100	8,380	5,420	3,890	3,010	3,430	2,170	3,010	2,260	3,010
23	10,600	23,500	43,000	7,750	5,700	3,660	2,620	3,220	2,620	3,220	2,260	3,220
24	13,800	24,800	36,600	8,060	9,660	4,380	3,660	3,660	2,620	3,010	2,260	3,430
25	21,400	21,400	29,800	7,750	11,000	5,420	3,660	3,660	3,010	2,620	2,260	3,890
26	25,200	17,100	25,200	8,060	14,500	4,900	3,660	3,220	2,810	2,440	2,260	5,420
27	35,300	19,000	30,700	8,380	14,500	4,900	3,890	3,220	2,810	2,260	2,080	5,700
28	44,300	47,700	42,600	8,060	13,800	4,380	5,420	2,810	2,620	2,260	2,080	6,540
29	45,600	.....	46,400	7,750	9,980	3,660	8,700	2,620	2,810	2,150	2,080	6,540
30	45,100	.....	47,700	7,750	7,750	3,890	11,700	2,620	14,900	2,170	2,620	8,700
31	43,400	.....	46,000	.....	6,540	.....	9,020	2,620	.....	2,260	.....	10,300
1914												
1	11,000	10,300	6,250	19,800	7,140	2,620	1,840	3,660	3,660	2,080	1,920	3,430
2	11,000	14,500	6,250	23,900	5,420	2,440	1,840	3,660	3,430	1,920	1,920	5,420
3	9,660	13,800	5,970	21,400	6,250	2,620	2,170	3,890	3,430	1,920	1,920	7,440
4	9,340	12,400	5,970	19,800	6,250	2,440	2,170	3,660	3,010	1,760	1,920	9,980
5	9,020	9,020	5,160	12,700	5,970	2,620	2,620	3,430	2,810	1,760	1,920	16,000
6	8,380	7,140	4,900	11,000	4,640	2,440	2,440	3,220	2,620	1,760	1,920	25,600
7	7,750	8,380	4,900	12,000	5,420	3,430	2,620	3,010	2,260	1,760	1,920	31,500
8	6,540	13,800	4,900	16,000	6,540	3,660	2,440	2,810	2,260	2,000	1,920	31,100
9	5,970	17,500	4,380	18,300	7,440	3,890	2,620	3,010	1,920	2,080	1,920	23,900
10	5,420	17,500	4,380	18,300	7,140	3,430	2,080	2,810	1,920	2,440	2,000	16,000
11	5,160	14,500	4,380	19,000	6,540	3,220	2,260	3,220	1,920	3,430	2,440	11,300
12	4,900	11,000	5,700	16,000	6,540	2,810	2,810	4,130	1,920	3,890	3,220	7,140
13	4,380	9,660	5,970	12,000	5,700	2,810	4,380	7,750	1,920	3,430	3,010	6,840
14	3,890	11,000	7,140	15,600	5,700	2,620	4,130	10,600	1,920	3,430	2,620	8,700
15	3,890	10,300	6,840	28,300	5,420	3,010	3,890	9,660	1,920	3,890	2,620	9,660
16	3,890	9,660	7,750	41,700	4,130	2,810	3,220	8,700	1,920	4,380	3,220	9,020
17	3,660	9,020	7,140	41,700	3,890	3,430	3,010	7,140	1,920	12,000	4,640	8,380
18	3,430	8,700	6,540	40,900	3,890	3,660	9,340	6,250	1,920	17,100	5,700	6,840
19	3,430	8,380	5,970	34,900	3,660	3,430	15,300	4,380	1,760	14,900	5,970	5,700
20	3,660	7,750	5,700	25,200	3,890	3,010	15,600	3,660	1,760	9,980	4,640	5,160
21	3,430	7,140	5,420	14,500	3,660	3,010	13,800	3,430	2,620	5,970	3,890	5,420
22	3,220	7,140	5,700	15,300	3,430	2,810	9,340	2,620	4,900	4,130	3,430	5,700
23	3,220	6,840	5,970	16,000	3,010	3,220	5,970	2,810	3,660	3,430	3,010	6,250
24	3,010	6,540	6,250	13,800	3,220	2,810	4,130	2,620	3,010	3,010	2,620	8,060
25	3,220	7,140	5,700	12,700	3,220	2,810	3,430	3,010	2,810	2,810	2,260	12,400
26	3,430	7,750	5,970	10,300	3,010	2,620	3,220	3,010	2,620	2,620	2,170	21,000
27	3,660	7,140	5,700	10,300	3,010	2,620	3,220	3,220	2,620	2,260	2,080	33,300
28	3,890	6,540	5,420	9,660	3,010	2,170	2,810	3,220	2,260	2,260	2,080	40,900
29	3,890	.....	5,420	9,020	2,620	2,170	3,890	3,660	2,260	2,260	2,810	56,200
30	3,890	.....	5,970	7,440	2,620	1,920	4,640	3,890	2,260	2,000	4,130	46,400
31	5,420	.....	7,140	.....	2,620	.....	4,900	3,890	.....	1,920	.....	44,700

Note.—Daily discharge determined from a well defined rating curve.

Daily discharge, in second-feet, of Coosa River at Riverside, Ala.—Cont'd.
[Drainage area, 7,060 square miles.]

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1915									
1	40,400	22,700	17,500	8,380	4,380	5,700	6,840	2,620	3,890
2	32,400	42,600	14,900	8,380	4,380	5,420	7,140	2,620	3,890
3	19,800	50,200	13,400	8,380	3,890	4,900	7,750	2,810	3,890
4	14,500	51,500	12,000	8,380	3,890	4,900	11,700	3,010	4,130
5	12,000	51,100	19,800	8,060	3,890	4,900	16,000	3,010	9,980
6	13,100	51,100	23,100	7,750	3,890	4,900	17,900	3,010	19,400
7	24,300	46,000	27,700	7,140	12,400	4,900	18,300	2,810	22,300
8	29,000	40,900	26,000	7,140	33,600	5,160	17,100	2,810	16,800
9	31,900	29,800	23,100	6,540	35,800	4,900	13,400	2,810	13,400
10	29,400	21,400	19,800	6,540	34,100	4,900	12,400	2,810	7,440
11	24,800	17,500	16,800	5,970	29,000	4,640	9,980	2,810	5,420
12	21,000	15,300	14,200	5,970	23,900	4,380	9,020	2,810	4,130
13	19,000	12,700	11,700	5,970	17,500	4,380	8,380	2,810	3,430
14	19,000	12,400	11,700	5,700	13,400	4,900	8,380	4,130	3,010
15	19,400	14,500	11,300	5,420	12,000	6,540	6,840	4,130	3,010
16	18,300	17,500	10,600	5,420	11,000	7,750	6,840	4,900	3,010
17	17,900	19,400	10,300	5,420	9,340	6,840	6,540	4,900	3,430
18	19,800	21,400	9,660	5,420	8,700	6,540	6,540	5,420	3,220
19	21,800	20,200	9,020	5,160	7,750	6,540	5,420	6,250	3,010
20	24,300	15,300	9,020	5,160	6,250	5,970	4,640	7,140	3,010
21	25,200	13,800	9,980	5,160	5,420	5,420	3,890	9,340	2,810
22	23,100	12,000	11,000	5,160	5,160	4,380	3,890	9,980	2,620
23	19,000	11,000	9,340	5,160	4,900	3,890	3,430	9,020	2,620
24	16,000	14,900	8,700	4,900	4,900	3,430	3,010	7,750	3,010
25	17,900	18,300	8,380	4,640	4,380	3,430	3,010	5,420	3,010
26	23,100	23,500	8,380	4,640	4,380	3,220	3,010	4,380	3,010
27	26,900	21,000	8,380	4,640	4,380	3,220	2,810	4,380	3,010
28	24,800	19,400	8,060	4,380	5,420	3,220	2,810	4,380	2,620
29	21,800	.....	8,380	4,380	7,440	3,890	2,810	4,130	2,260
30	18,300	.....	8,700	4,380	7,750	3,890	2,620	3,890	2,260
31	17,900	.....	8,700	.....	6,250	.....	2,620	3,890	.....

Note.—At present all stream flow computations by the United States Geological Survey are prepared for the climatic year ending September 30, the year 1916 will begin with October 1, 1915, thus including three months of 1915.

Estimated monthly discharge of Coosa River at Riverside, Ala.
[Drainage area, 7,060 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-feet per sq. mile.	Depth in inches.
1896					
September 27 to 30	1,400	1,350	1,363	0.20	0.03
October	7,640	1,450	2,218	.32	.37
November	15,100	2,190	4,637	.68	.75
December	12,110	2,280	4,125	.60	.69
1897					
January	21,707	2,420	8,434	1.23	1.42
February	27,086	4,520	18,658	2.72	2.83
March	47,624	10,460	32,481	4.74	5.47
April	37,355	5,100	17,698	2.58	2.87
May	10,786	4,270	7,040	1.03	1.19
June	4,950	3,070	3,915	.57	.63
July	23,826	3,070	7,142	1.04	1.20
August	6,300	2,850	3,870	.56	.64
September	3,540	1,440	1,976	.29	.32
October	3,660	1,350	1,819	.27	.21
November	2,525	1,570	1,786	.26	.29
December	13,883	1,820	6,566	.96	1.10
The year	47,624	1,350	9,282	1.35	18.27

Estimated monthly discharge of Coosa River at Riverside, Ala.—Continued.

[Drainage area, 7,060 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-feet per square mile.	Depth in inches.
1898					
January	35,084	3,550	11,572	1.69	1.95
February	16,760	3,655	5,763	.84	.87
March	15,045	3,550	5,852	.59	.68
April	36,160	3,260	18,133	2.65	2.95
May	9,560	3,028	4,684	.68	.78
June	5,540	2,320	3,281	.48	.54
July	9,900	2,140	4,289	.63	.72
August	19,161	3,970	8,758	1.28	1.48
September	41,920	3,865	13,927	2.03	2.26
October	72,160	3,760	19,936	2.91	3.36
November	20,190	5,300	8,375	1.22	1.36
December	9,900	5,070	7,376	1.08	1.25
The year	72,160	2,140	9,329	1.34	18.20
1899					
January	17,330	6,390	10,865	1.54	1.78
February	48,410	17,330	30,974	4.38	4.56
March	60,880	14,740	38,094	5.39	6.21
April	41,010	11,410	24,915	3.53	3.94
May	14,000	4,900	7,742	1.10	1.27
June	7,700	3,500	4,771	.68	.75
July	14,740	2,760	5,318	.75	.86
August	10,125	2,600	3,806	.54	.62
September	6,530	2,330	3,555	.50	.56
October	3,100	2,330	2,510	.36	.41
November	7,100	2,395	3,086	.44	.49
December	26,025	2,920	10,631	1.50	1.73
The year	60,880	2,330	12,189	1.73	23.18
1900					
January	33,100	4,280	13,344	1.89	2.18
February	54,300	5,700	23,487	3.32	3.45
March	44,500	13,450	26,822	3.80	4.38
April	65,500	11,350	29,813	4.22	4.71
May	14,350	5,970	8,198	1.16	1.34
June	51,500	5,970	22,216	3.14	3.51
July	39,500	5,565	13,610	1.93	2.23
August	12,750	4,050	5,147	.73	.84
September	23,100	2,760	6,483	.92	1.03
October	23,100	3,100	6,910	.98	1.13
November	29,900	3,720	7,673	1.09	1.22
December	22,300	5,335	11,773	1.67	1.93
The year	65,500	2,760	14,623	2.07	27.95
1901					
January	55,900	8,970	26,089	3.69	4.25
February	41,100	8,970	21,784	3.08	3.21
March	56,700	7,400	20,613	2.92	3.37
April	51,100	14,500	30,616	4.33	4.83
May	40,700	6,670	16,195	2.29	2.64
June	26,100	6,810	12,335	1.75	1.95
July	10,300	4,900	6,535	.93	1.07
August	44,700	4,400	20,370	2.88	3.32
September	23,100	5,700	9,977	1.41	1.57
October	10,300	4,280	5,694	.81	.93
November	4,650	3,330	4,016	.57	.64
December	57,100	4,050	18,885	2.67	3.08
The year	57,100	3,330	16,092	2.28	30.86

Estimated monthly discharge of Coosa River at Riverside, Ala.—Continued.
[Drainage area, 7,060 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-feet per square mile.	Depth in inches.
1902					
January	55,900	6,670	23,804	3.37	3.89
February	51,500	12,050	24,839	3.52	3.67
March	62,300	14,850	34,762	4.92	5.67
April	55,100	8,330	20,872	2.95	3.29
May	8,330	4,900	6,375	.90	1.04
June	4,900	3,330	4,247	.60	.67
July	6,670	3,015	3,718	.53	.61
August	5,430	2,760	3,577	.51	.59
September	10,300	2,610	3,938	.56	.62
October	10,300	2,760	4,576	.65	.75
November	9,950	2,685	3,994	.57	.64
December	24,300	5,430	12,719	1.80	2.08
The year	62,300	2,610	12,285	1.74	23.52
1903					
January	2,170	6,610	12,066	1.71	1.97
February	67,500	10,680	43,155	6.11	6.36
March	58,470	17,930	40,682	5.76	6.64
April	52,450	12,370	28,988	4.10	4.57
May	30,740	6,460	11,294	1.60	1.84
June	36,540	6,460	15,654	2.22	2.48
July	21,710	5,010	7,994	1.13	1.30
August	14,890	3,180	5,910	.84	.97
September	4,880	2,800	3,211	.45	.50
October	3,590	2,620	2,922	.41	.47
November	4,510	2,800	3,334	.47	.52
December	3,380	2,710	2,988	.42	.48
The year	67,500	2,620	14,849	2.10	28.10
1904					
January	14,440	2,620	5,228	0.740	0.853
February	17,940	4,130	8,391	1.19	1.28
March	20,900	5,560	11,370	1.61	1.86
April	14,800	4,765	7,462	1.06	1.18
May	5,970	2,527	3,676	.520	.600
June	7,135	2,255	3,598	.509	.568
July	5,970	2,435	3,314	.469	.541
August	18,680	2,527	6,118	.866	.998
September	2,620	1,528	1,987	.281	.314
October	1,605	1,225	1,351	.192	.221
November	1,920	1,225	1,713	.242	.270
December	14,800	1,760	5,127	.726	.837
The year	20,900	1,225	4,945	.700	9.52
1905					
January	43,650	5,028	14,500	2.05	2.36
February	50,310	6,250	30,340	4.29	4.47
March	20,340	7,440	11,710	1.66	1.91
April	9,080	5,970	7,266	1.03	1.15
May	34,400	6,110	14,650	2.07	2.39
June	10,130	4,380	6,259	.886	.988
July	18,860	3,655	7,990	1.13	1.30
August	14,800	3,112	6,813	.964	1.11
September	5,028	2,255	3,203	.453	.505
October	7,440	2,255	3,921	.555	.640
November	3,215	2,528	2,838	.402	.448
December	35,880	3,215	21,330	3.02	3.48
The year	50,310	2,255	10,900	1.54	20.75

Estimated monthly discharge of Coosa River at Riverside, Ala.—Continued.

[Drainage area, 7,060 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-feet per square mile.	Depth in inches.
1898					
January	35,084	3,550	11,572	1.69	1.95
February	16,760	3,655	5,763	.84	.87
March	15,045	3,550	5,852	.59	.68
April	36,160	3,260	18,133	2.65	2.95
May	9,560	3,028	4,684	.68	.78
June	5,540	2,320	3,281	.48	.54
July	9,900	2,140	4,289	.63	.72
August	19,161	3,970	8,758	1.28	1.48
September	41,920	3,865	13,927	2.03	2.26
October	72,160	3,760	19,936	2.91	3.36
November	20,190	5,300	8,375	1.22	1.36
December	9,900	5,070	7,376	1.08	1.25
The year	72,160	2,140	9,329	1.34	18.20
1899					
January	17,330	6,390	10,865	1.54	1.78
February	48,410	17,330	30,974	4.38	4.56
March	60,880	14,740	38,094	5.39	6.21
April	41,010	11,410	24,915	3.53	3.94
May	14,000	4,900	7,742	1.10	1.27
June	7,700	3,500	4,771	.68	.75
July	14,740	2,760	5,318	.75	.86
August	10,125	2,600	3,806	.54	.62
September	6,530	2,330	3,555	.50	.56
October	3,100	2,330	2,510	.36	.41
November	7,100	2,395	3,086	.44	.49
December	26,025	2,920	10,631	1.50	1.73
The year	60,880	2,330	12,189	1.73	23.18
1900					
January	33,100	4,280	13,344	1.89	2.18
February	54,300	5,700	23,487	3.32	3.45
March	44,500	13,450	26,822	3.80	4.38
April	65,500	11,350	29,813	4.22	4.71
May	14,850	5,970	8,198	1.16	1.34
June	51,500	5,970	22,216	3.14	3.51
July	39,500	5,565	13,610	1.93	2.23
August	12,750	4,050	5,147	.73	.84
September	23,100	2,760	6,488	.92	1.03
October	23,100	3,100	6,910	.98	1.13
November	29,900	3,720	7,673	1.09	1.22
December	22,300	5,885	11,778	1.67	1.93
The year	65,500	2,760	14,623	2.07	27.95
1901					
January	55,900	8,970	26,089	3.69	4.25
February	41,100	8,970	21,784	3.08	3.21
March	56,700	7,400	20,613	2.92	3.37
April	51,100	14,500	30,616	4.33	4.83
May	40,700	6,670	16,195	2.29	2.64
June	26,100	6,810	12,385	1.75	1.95
July	10,300	4,900	6,535	.93	1.07
August	44,700	4,400	20,370	2.88	3.32
September	23,100	5,700	9,977	1.41	1.57
October	10,300	4,280	5,694	.81	.93
November	4,650	3,880	4,016	.57	.64
December	57,100	4,050	18,885	2.67	3.08
The year	57,100	3,880	16,092	2.28	30.86

Estimated monthly discharge of Coosa River at Riverside, Ala.—Continued.
[Drainage area, 7,060 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-feet per square mile.	Depth in inches.
1902					
January	55,900	6,670	23,804	3.37	3.89
February	51,500	12,050	24,839	3.52	3.67
March	62,300	14,850	34,762	4.92	5.67
April	55,100	8,330	20,872	2.95	3.29
May	8,330	4,900	6,375	.90	1.04
June	4,900	3,830	4,247	.60	.67
July	6,670	3,015	3,718	.53	.61
August	5,430	2,760	3,577	.51	.59
September	10,300	2,610	3,938	.56	.62
October	10,300	2,760	4,576	.65	.75
November	9,950	2,685	3,994	.57	.64
December	24,300	5,430	12,719	1.80	2.08
The year	62,300	2,610	12,285	1.74	23.52
1903					
January	2,170	6,610	12,066	1.71	1.97
February	67,500	10,680	43,155	6.11	6.36
March	58,470	17,930	40,682	5.76	6.64
April	52,450	12,370	28,988	4.10	4.57
May	30,740	6,460	11,294	1.60	1.84
June	36,540	6,460	15,654	2.22	2.48
July	21,710	5,010	7,994	1.13	1.30
August	14,890	3,180	5,910	.84	.97
September	4,880	2,800	3,211	.45	.50
October	3,590	2,620	2,922	.41	.47
November	4,510	2,800	3,334	.47	.52
December	3,380	2,710	2,988	.42	.48
The year	67,500	2,620	14,849	2.10	28.10
1904					
January	14,440	2,620	5,228	0.740	0.853
February	17,940	4,130	8,391	1.19	1.28
March	20,900	5,560	11,370	1.61	1.86
April	14,800	4,765	7,462	1.06	1.18
May	5,970	2,527	3,676	.520	.600
June	7,135	2,255	3,598	.509	.568
July	5,970	2,435	3,314	.469	.541
August	18,680	2,527	6,118	.866	.998
September	2,620	1,528	1,987	.281	.314
October	1,605	1,225	1,351	.192	.221
November	1,920	1,225	1,718	.242	.270
December	14,800	1,760	5,127	.726	.837
The year	20,900	1,225	4,945	.700	9.52
1905					
January	43,650	5,028	14,500	2.05	2.36
February	50,310	6,250	30,340	4.29	4.47
March	20,340	7,440	11,710	1.66	1.91
April	9,080	5,970	7,266	1.03	1.15
May	34,400	6,110	14,650	2.07	2.39
June	10,130	4,380	6,259	.886	.988
July	18,860	3,655	7,990	1.13	1.30
August	14,800	3,112	6,813	.964	1.11
September	5,028	2,255	3,203	.453	.505
October	7,440	2,255	3,921	.555	.640
November	3,215	2,528	2,838	.402	.448
December	35,880	3,215	21,330	3.02	3.48
The year	50,310	2,255	10,900	1.54	20.75

Estimated monthly discharge of Coosa River at Riverside, Ala.—Continued.
[Drainage area, 7,060 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-feet per square mile.	Depth in inches.
1906					
January	42,200	11,700	22,600	3.20	3.69
February	16,000	5,700	8,580	1.21	1.26
March	75,800	6,540	34,400	4.87	5.62
April	37,500	7,140	14,300	2.10	2.34
May	11,000	4,640	6,850	.970	1.12
June	31,000	4,380	10,100	1.43	1.60
July	46,400	5,030	17,600	2.49	2.87
August	17,500	7,440	11,200	1.59	1.83
September	15,300	5,500	10,500	1.49	1.66
October	44,700	6,980	20,400	2.89	3.33
November	46,400	5,160	17,700	2.51	2.80
December	31,900	7,290	12,300	1.74	2.01
The year	75,800	4,380	15,600	2.21	30.13
1907					
January	45,100	7,750	15,700	2.22	2.56
February	40,400	8,700	19,600	2.78	2.90
March	51,100	7,440	19,700	2.79	3.22
April	18,300	7,440	10,600	1.50	1.67
May	38,300	9,660	15,900	2.25	2.59
June	29,000	5,290	10,300	1.53	1.71
July	9,020	4,130	5,980	.847	.98
August	7,140	3,320	5,300	.751	.87
September	21,300	2,620	6,400	.907	1.01
October	10,300	2,810	4,090	.579	.67
November	31,100	3,010	9,420	1.33	1.48
December	27,300	5,420	11,500	1.63	1.88
The year	51,100	2,620	11,200	1.59	21.54
1908					
January	35,300	8,220	18,000	2.55	2.94
February	53,700	15,300	30,300	4.29	4.63
March	47,700	9,980	20,300	2.88	3.32
April	26,900	8,380	15,900	2.25	2.51
May	14,500	6,690	10,300	1.46	1.68
June	9,340	4,130	5,960	.844	.94
July	11,700	3,110	4,930	.698	.80
August	9,340	2,910	4,920	.697	.80
September	10,600	2,260	3,650	.517	.58
October	6,980	2,080	2,800	.397	.46
November	3,660	2,340	2,750	.390	.44
December	41,700	2,720	15,500	2.20	2.54
The year	53,700	2,080	11,300	1.60	21.64
1909					
January	32,400	6,840	15,000	2.12	2.44
February	51,500	5,420	30,800	4.36	4.54
March	75,000	16,000	45,100	6.39	7.37
April	41,700	9,660	19,000	2.69	3.00
May	44,300	11,000	20,800	2.95	3.40
June	49,400	10,300	24,900	3.53	3.94
July	21,400	5,420	10,500	1.49	1.72
August	34,500	3,890	11,700	1.66	1.91
September	8,700	3,480	4,650	.659	.74
October	14,500	2,620	4,170	.591	.68
November	3,010	2,810	2,900	.411	.46
December	16,000	3,010	7,320	1.04	1.20
The year	75,000	2,620	16,400	2.32	31.40

Monthly discharge of Coosa River at Riverside, Ala.—Continued.

[Drainage area, 7,060 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-feet per square mile.	Depth in inches.
1910					
January	16,800	4,380	8,240	1.17	1.35
February	33,600	5,160	12,400	1.76	1.83
March	29,000	5,160	11,600	1.64	1.89
April	13,800	4,130	6,020	.853	.95
May	46,000	4,900	18,300	2.59	2.99
June	21,400	6,840	12,500	1.77	1.98
July	42,200	6,840	20,200	2.86	3.30
August	13,800	4,130	6,410	.908	1.05
September	12,000	2,620	5,020	.711	.79
October	4,640	2,440	3,180	.450	.52
November	2,620	2,260	2,410	.341	.38
December	18,700	2,720	5,200	.737	.85
The year	46,000	2,260	9,290	1.32	17.88
1911					
January	43,400	4,380	13,300	1.88	2.17
February	21,800	4,380	11,000	1.56	1.62
March	13,800	4,640	7,220	1.02	1.18
April	53,200	6,110	24,300	3.44	3.84
May	10,100	3,770	6,200	.878	1.01
June	4,760	2,580	3,520	.499	.56
July	12,400	3,430	6,110	.865	1.00
August	14,900	2,260	6,380	.904	1.04
September	2,620	2,260	2,300	.326	.36
October	14,900	2,260	4,010	.568	.65
November	15,300	2,260	5,600	.793	.88
December	37,500	3,010	12,600	1.78	2.05
The year	53,200	2,260	8,580	1.21	16.36
1912					
January	40,000	7,140	16,400	2.32	2.68
February	52,400	9,660	28,400	4.02	4.34
March	59,600	19,300	38,300	5.42	6.25
April	61,800	13,100	34,400	4.87	5.43
May	39,200	6,540	16,400	2.32	2.68
June	29,800	7,140	12,800	1.81	2.02
July	23,900	5,700	13,600	1.93	2.22
August	23,500	4,900	8,450	1.20	1.38
September	14,900	3,430	5,230	.741	.83
October	13,100	3,660	5,530	.783	.90
November	5,970	3,220	3,700	.524	.58
December	12,700	3,220	7,400	1.05	1.21
The year	61,800	3,220	15,800	2.24	30.52
1913					
January	45,600	10,300	18,900	2.68	3.09
February	49,400	12,400	27,600	3.91	4.07
March	53,200	15,600	39,900	5.65	6.51
April	42,600	7,750	13,200	1.87	2.09
May	14,500	5,160	7,260	1.03	1.19
June	11,000	3,660	6,340	.898	1.00
July	11,700	2,620	4,400	.623	.72
August	8,380	2,620	4,560	.646	.74
September	14,900	1,840	2,820	.399	.45
October	13,300	2,170	4,170	.591	.68
November	2,810	2,000	2,270	.322	.36
December	13,800	3,010	5,760	.816	.94
The year	53,200	1,840	11,400	1.61	21.84

Monthly discharge of Coosa River at Riverside, Ala.—Continued.

[Drainage area, 7,060 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-feet per sq. mile.	Depth in inches.
1914					
January	11,000	3,010	5,310	0.752	0.87
February	17,500	6,540	10,000	1.42	1.48
March	7,750	4,380	5,830	.826	.95
April	41,700	7,440	18,900	2.68	2.99
May	7,440	2,620	4,680	.663	.76
June	3,890	1,920	2,890	.409	.46
July	15,600	1,840	4,710	.667	.77
August	10,600	2,620	4,320	.612	.71
September	4,900	1,760	2,510	.356	.40
October	17,100	1,760	4,150	.588	.68
November	5,970	1,920	2,860	.405	.45
December	56,200	3,480	17,200	2.44	2.81
The year	56,200	1,760	6,980	.982	13.33
1915					
January	40,400	12,000	22,100	3.13	3.61
February	51,500	11,000	25,300	3.58	3.73
March	27,700	8,060	13,200	1.87	2.16
April	8,380	4,380	5,990	.848	.95
May	35,800	3,890	10,900	1.54	1.78
June	7,750	3,220	4,900	.694	.77
July	18,300	2,620	7,580	1.07	1.23
August	9,980	2,620	4,520	.640	.74
September	22,300	2,260	5,570	.789	.88

ALABAMA RIVER AT SELMA, ALA.

Location.—At the highway bridge in Selma, Ala.

Records available.—January 1, 1899, to December 31, 1913. The station was originally established by the United States Army Engineer Corps, but in 1890 gage-height records were begun by the United States Weather Bureau. Although it is not thought that the discharge rating can be accurately applied farther back than 1899, flow estimates based on earlier gage heights will probably be of some value.

Drainage area.—15,400 square miles.

Gage.—Standard chain gage was installed by the United States Geological Survey March 22, 1906, on the downstream side of the highway bridge. The United States Weather Bureau gage formerly used was in two sections—the low-water portion, reading from —3 to +5.1 feet, being fastened to the lower side of the cofferdam on the second pier, and the upper portion, reading from 5.1 to 55 feet, being fastened to the draw pier. All gages have had the same datum, but the bad condition of a short low-water section caused

some error in the low-water readings prior to 1906, especially those of the year 1904.

Channel.—In soft limestone, deep with swift current and is difficult to sound even at ordinary stages. Both banks are high, but the left is subject to overflow at extreme high water.

Discharge measurements.—Made from the highway bridge to which the gage is attached.

Accuracy.—Conditions of flow are somewhat changeable, but a fairly good rating has been developed.

Discharge measurements of Alabama River at Selma.

	Gage height. Feet.	Discharge. Sec.-feet.
1900		
April 14	23.60	66,607
May 26	6.10	17,049
August 24	3.10	9,879
1901		
March 14	14.20	35,518
April 25	34.00	90,332
August 9	4.85	12,519
October 30	1.10	7,710
1903		
April 10	22.35	59,100
June 19	6.45	18,320
November 11	1.00	8,290
1904		
January 22	5.20	16,200
January 28	5.55	17,050
April 8	4.20	13,010
August 5	4.60	14,600
August 5	4.30	13,970
November 1	—2.20	2,665
November 1	—2.20	2,786
1905		
February 7	11.05	32,420
February 8	14.00	40,370
February 8	14.90	41,650
May 20	11.94	30,740
December 19	11.00	29,440
1906		
March 21	42.26	114,000
March 22	47.40	128,000
March 23	49.78	143,000
March 24	50.42	144,000
March 26	47.95	134,000
March 27	45.08	116,000
March 28	43.08	106,000
June 27	3.88	13,600
October 26	9.94	26,700
1908		
March 26	35.97	106,000
1909		
August 19	6.70	17,800
1911		
August 16	3.10	11,100

Daily gage height, in feet, of Alabama River at Selma, Ala.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1899.												
1	6.2	10.8	35.8	23.8	13.9	4.5	2.5	11.1	3.7	−1.2	−0.2	4.8
2	6.2	17.0	36.8	24.3	11.5	4.0	2.5	9.9	4.3	−1.3	− .3	3.7
3	6.5	20.2	38.8	24.9	9.9	4.0	2.6	9.0	4.6	−1.3	− .5	3.0
4	6.2	24.0	37.7	24.1	9.8	4.0	2.6	6.7	4.8	−1.3	− .6	2.0
5	6.2	26.8	35.3	22.3	8.6	3.8	2.1	6.5	4.7	−1.1	− .7	2.8
6	5.8	27.2	32.6	20.9	8.1	3.9	1.6	5.8	4.4	−1.0	− .7	2.8
7	6.6	27.2	30.5	20.0	7.5	3.8	1.6	5.2	4.1	−1.6	− .8	1.7
8	8.3	29.8	27.5	19.8	7.4	3.7	1.5	4.7	3.9	− .5	− .8	1.7
9	9.7	32.2	23.4	23.3	7.3	3.3	1.4	4.5	3.6	− .4	− .8	1.3
10	11.6	33.9	19.7	25.6	7.3	3.1	1.3	3.7	.6	− .4	− .9	1.3
11	13.9	34.4	16.9	26.9	7.5	2.8	1.3	3.5	.4	− .5	− .9	1.4
12	14.8	33.9	15.0	26.6	7.2	2.3	1.2	3.0	.3	− .6	−1.0	4.0
13	21.2	32.0	13.9	25.1	6.8	2.6	1.5	2.9	.3	− .6	−1.1	10.4
14	21.9	30.0	16.2	22.6	6.5	2.4	1.2	2.7	.2	− .2	−1.2	16.6
15	19.8	28.0	16.8	19.5	6.3	2.4	1.1	2.6	.2	− .2	−1.2	17.8
16	18.0	26.5	19.4	16.3	6.2	2.3	1.0	2.6	.1	− .2	−1.3	16.3
17	17.5	26.8	21.4	14.0	6.1	2.8	1.0	2.6	.6	− .3	−1.3	13.4
18	17.2	24.0	27.7	13.0	5.6	3.4	.7	2.8	1.3	− .5	−1.3	9.9
19	17.0	22.3	31.6	12.0	5.4	3.9	.6	4.1	1.0	− .7	−1.2	8.4
20	15.8	19.9	33.5	11.2	5.0	3.9	.6	4.3	.9	− .6	−1.0	3.8
21	14.2	19.9	34.7	10.5	4.8	3.1	1.0	3.6	.6	− .7	−1.0	3.8
22	12.6	19.5	34.8	10.4	4.5	2.6	1.6	3.5	− .6	− .8	− .6	3.4
23	10.2	18.8	34.2	10.2	4.4	1.6	5.5	3.4	− .7	− .2	− .6	3.4
24	10.3	17.8	33.4	10.1	4.8	1.4	10.7	3.1	− .8	.0	− .3	3.8
25	9.4	17.3	31.1	12.4	5.0	1.4	14.8	3.6	−1.0	.0	.1	7.6
26	9.0	16.4	32.6	13.5	6.0	1.6	17.0	4.2	−1.0	− .5	.2	12.2
27	8.9	20.3	31.8	16.3	6.1	1.7	17.0	3.9	−1.0	− .5	.9	13.5
28	8.6	31.2	30.5	17.9	5.2	2.0	14.9	3.6	−1.0	− .6	3.2	13.7
29	8.6	.....	29.3	17.7	4.5	2.2	13.1	4.3	−1.1	− .6	4.6	12.3
30	9.0	.....	27.8	16.1	4.3	2.4	12.8	4.6	−1.1	− .6	4.8	11.4
31	9.6	.....	26.3	.....	4.2	.....	11.9	3.8	.....	− .4	.....	8.3
1900.												
1	7.2	4.8	17.2	19.8	15.4	4.8	24.8	14.0	3.9	.8	2.0	16.0
2	6.6	3.6	19.7	16.8	13.9	4.6	23.0	13.0	3.9	.7	2.0	14.0
3	4.3	3.5	22.2	14.0	13.0	4.4	29.8	11.0	5.8	.6	4.0	11.8
4	3.8	3.9	22.0	12.0	12.0	4.2	28.5	9.0	4.5	.6	9.0	9.0
5	3.0	4.7	20.6	10.9	11.8	5.6	23.5	7.0	5.4	.5	14.0	8.0
6	3.0	6.2	17.8	8.0	10.2	5.1	20.2	6.0	5.0	1.0	13.5	7.5
7	3.0	8.2	15.0	7.8	9.6	4.6	17.0	5.5	4.5	1.8	9.4	7.0
8	3.0	8.4	13.9	8.9	8.8	4.2	14.0	5.0	4.1	2.5	6.3	7.0
9	2.7	8.5	14.9	9.6	8.0	6.8	11.5	4.8	3.8	4.0	4.0	9.0
10	2.7	10.7	18.8	9.5	7.8	11.6	10.0	4.5	1.8	4.2	2.0	9.4
11	3.8	16.0	20.9	9.8	7.5	13.5	9.8	3.2	1.0	2.0	2.0	6.0
12	7.7	22.2	22.2	12.0	7.3	14.0	10.2	3.0	.7	2.0	1.9	5.0
13	12.4	29.9	22.0	17.7	7.0	13.9	10.0	2.8	.6	2.5	1.6	2.0
14	13.5	38.6	19.9	23.4	6.6	12.8	9.9	2.5	1.0	4.3	1.6	3.2
15	14.7	44.0	19.0	25.5	6.4	11.0	9.9	2.5	1.6	6.7	1.0	9.0
16	14.0	47.0	16.9	25.0	6.0	9.0	10.0	2.4	11.0	6.0	1.0	11.0
17	13.2	48.0	15.3	22.5	5.7	8.9	9.9	2.8	18.0	5.2	1.0	11.0
18	12.0	47.9	13.9	23.5	5.5	8.8	9.0	2.7	19.0	2.5	1.0	10.0
19	11.1	47.0	14.3	29.0	5.2	8.6	7.0	2.7	19.4	1.0	1.0	6.0
20	11.1	44.1	14.6	34.8	5.1	10.0	7.0	2.5	16.0	1.0	1.0	5.1
21	13.4	41.6	18.8	39.0	5.0	10.9	6.5	2.3	12.5	.9	1.0	9.0
22	16.9	36.9	23.0	39.8	5.0	12.0	6.5	2.6	10.0	1.0	1.6	14.5
23	18.5	33.2	25.5	41.0	4.8	12.9	6.3	3.6	6.0	1.5	6.0	17.0
24	18.3	22.6	29.0	40.0	5.5	14.0	6.0	3.8	3.0	6.0	9.0	17.2
25	17.0	22.6	30.2	38.5	6.1	17.6	5.8	4.0	1.9	11.5	9.8	17.6
26	14.7	21.1	32.7	35.8	6.2	24.5	5.0	3.5	1.6	12.0	9.9	18.0
27	13.0	19.0	33.3	32.7	6.6	29.0	4.5	3.5	1.0	11.5	13.0	17.0
28	11.2	16.9	32.5	28.5	6.8	32.0	4.4	3.4	1.0	12.3	16.0	14.5
29	8.4	.....	30.5	23.0	6.0	33.5	7.5	3.5	9	13.0	16.8	12.9
30	6.5	.....	27.7	18 0	5.5	35.0	8.0	4.0	8	11.0	17.0	11.2
31	4.8	.....	24.4	.....	5.0	.....	11.8	4.2	.....	5.0	.....	11.0

Daily gage height, in feet, of Alabama River at Selma, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1901.												
1	16.0	13.0	11.3	35.6	12.0	19.0	1.0	2.8	17.0	4.3	1.4	1.8
2	21.0	13.0	9.8	36.5	10.4	17.0	2.0	2.6	13.8	4.3	1.4	1.8
3	24.0	13.6	9.5	37.4	10.0	16.5	2.4	2.6	10.6	5.0	1.4	1.9
4	24.6	17.0	9.3	38.5	9.6	18.5	6.6	2.8	8.8	7.4	1.5	2.2
5	24.0	24.9	9.6	38.4	8.2	19.0	6.0	3.0	8.0	7.9	1.5	2.3
6	23.0	30.1	9.6	37.2	7.0	19.8	5.6	2.8	7.4	6.4	1.4	2.3
7	18.0	33.0	9.4	35.5	7.0	18.5	5.6	6.6	6.0	5.8	1.6	2.4
8	15.0	35.1	8.0	33.0	6.8	17.4	5.5	4.6	5.2	5.0	1.6	2.1
9	13.3	35.6	7.7	28.0	6.4	16.1	5.5	4.2	4.4	4.3	1.5	2.0
10	10.0	35.7	7.9	22.6	6.0	14.8	5.5	3.4	4.4	3.4	1.5	2.2
11	8.1	33.0	9.0	17.4	5.0	12.0	5.2	4.0	3.6	2.9	1.5	2.4
12	16.5	31.4	10.2	14.0	5.0	11.0	5.2	5.3	3.4	2.8	1.5	2.4
13	28.0	31.2	12.0	12.0	4.8	9.5	5.1	6.2	3.2	2.6	1.4	2.4
14	34.0	27.0	14.1	11.8	4.5	8.0	4.4	4.4	3.7	2.5	1.4	2.6
15	38.0	26.0	15.4	12.0	4.0	7.6	3.7	3.8	4.3	2.2	1.4	5.0
16	39.5	20.6	15.0	15.0	3.8	7.0	3.7	6.0	4.0	2.5	1.3	10.0
17	40.0	16.9	14.8	16.5	3.4	6.1	3.5	7.4	5.0	2.5	1.3	18.0
18	39.0	14.6	12.0	17.3	3.2	6.0	4.3	11.0	5.0	2.4	1.3	21.6
19	37.5	13.1	11.1	22.0	3.0	5.0	6.3	12.0	5.5	2.0	1.4	22.0
20	35.0	12.6	10.5	28.6	3.0	4.1	7.3	16.0	9.5	2.3	1.6	21.5
21	32.4	12.0	11.0	35.0	3.5	3.4	6.0	17.6	11.4	2.5	1.8	18.7
22	29.0	11.8	11.9	38.0	4.7	3.0	5.5	18.8	11.5	2.5	1.8	15.0
23	24.0	11.7	12.2	39.0	9.4	3.0	5.4	20.0	11.2	2.2	1.8	14.2
24	22.0	11.6	13.0	38.0	17.0	2.6	5.4	20.9	10.0	2.0	1.8	12.0
25	14.0	11.2	14.7	35.8	19.0	2.2	4.4	22.8	7.5	2.0	1.9	11.0
26	12.8	11.5	17.0	31.9	20.0	2.0	4.0	24.6	6.0	2.0	1.9	7.1
27	12.8	11.4	22.5	28.0	20.9	1.5	4.0	24.8	4.4	1.8	2.0	6.2
28	12.7	11.3	27.6	24.2	22.0	1.3	3.6	22.9	4.0	1.6	2.0	6.0
29	12.7	.....	31.0	19.5	21.8	1.2	2.9	21.0	4.0	1.5	2.0	11.0
30	13.0	.....	33.0	15.0	20.7	1.2	2.9	20.6	4.2	1.3	1.8	23.0
31	13.0	.....	34.5	.....	19.5	.....	2.8	19.5	.....	1.3	.....	35.0
1902.												
1	41.0	16.8	34.3	50.1	8.4	3.6	1.5	.4	3.5	3.7	1.4	6.0
2	45.0	23.0	41.5	50.7	8.7	3.5	1.2	.4	3.7	5.2	8	6.8
3	46.6	29.8	45.2	50.0	8.4	3.5	1.0	.7	3.0	5.0	7	8.8
4	46.3	35.0	47.1	48.6	7.8	4.0	1.0	.8	3.8	4.0	5	10.5
5	41.4	37.5	47.1	46.0	7.4	4.0	.9	.9	3.0	3.6	2	13.6
6	37.0	37.9	46.2	42.4	7.0	3.8	.8	1.1	3.0	3.0	.4	14.0
7	35.0	37.9	44.4	39.0	7.0	3.5	7	1.4	2.5	2.8	.8	14.2
8	33.0	37.0	43.0	35.6	7.0	3.2	.6	1.3	2.2	2.5	3.9	13.7
9	30.0	34.0	41.8	32.0	6.9	2.9	.6	1.1	2.0	2.5	4.8	12.0
10	25.4	30.0	39.0	28.9	6.8	2.9	.6	1.1	1.2	1.0	4.0	9.8
11	17.0	24.0	35.1	25.6	6.7	2.9	1.0	1.5	.9	2.0	2.8	7.8
12	14.9	17.6	30.0	22.0	6.5	2.8	1.1	1.5	.8	2.0	1.9	7.2
13	10.1	14.0	25.5	19.0	6.3	2.6	1.1	1.1	.7	4.0	1.5	5.3
14	9.0	11.7	21.0	16.2	6.0	2.5	1.8	.9	.6	6.0	1.4	4.2
15	8.1	11.6	19.2	14.6	5.8	2.5	1.9	.8	2	5.8	.9	3.8
16	7.5	12.0	19.8	14.2	6.0	2.8	1.9	.8	0	5.0	.7	7.6
17	7.0	12.3	23.0	13.0	7.4	2.6	1.9	7	−.1	4.6	.5	13.8
18	6.5	13.0	28.0	12.2	8.7	2.4	1.9	.6	−.2	4.5	.5	21.5
19	6.5	12.0	32.0	12.8	9.5	2.3	1.9	.1	−.3	4.0	.7	25.5
20	6.5	11.8	33.6	13.2	9.0	2.2	2.0	0	−.3	2.0	.9	25.6
21	8.0	11.8	33.8	13.0	8.6	2.1	2.1	−.1	.0	1.8	1.4	22.0
22	8.1	11.9	29.8	13.0	7.8	2.0	2.5	−.2	0	1.4	1.5	17.0
23	9.0	12.0	26.0	11.4	6.6	2.0	2.4	−.3	−.1	1.0	1.5	15.0
24	12.0	12.2	23.0	10.6	5.9	2.0	1.8	−.2	−.2	1.0	1.3	15.0
25	13.8	12.0	22.8	10.0	5.4	1.9	1.0	−.4	−.2	.9	1.7	15.0
26	13.0	12.0	24.0	9.8	5.4	1.9	.8	−.3	−.2	6	2.6	14.0
27	11.5	14.0	24.9	9.4	5.0	1.8	.6	−.4	2	2	4.8	12.8
28	11.4	23.6	30.0	9.0	4.8	1.8	.5	−.2	.2	.0	7.6	10.9
29	12.0	.....	38.0	8.6	4.4	1.8	.4	.1	.5	−.1	6.9	9.0
30	14.6	.....	45.1	8.5	4.0	1.7	.5	.2	9	1.2	5.8	7.0
31	16.0	.....	48.9	.....	3.8	.....	.5	.4	.....	1.8	.....	6.4

Daily gage height, in feet, of Alabama River at Selma, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1903												
1	6.8	7.0	33.5	28.0	9.6	7.0	10.0	3.5	1.5	.1	— .2	.4
2	8.0	6.9	38.0	30.2	9.4	8.0	9.8	4.8	1.6	.0	— .2	.5
3	8.9	6.8	41.0	31.4	8.8	9.6	9.0	6.8	1.6	.0	— .1	.5
4	11.0	7.0	42.6	31.4	8.7	12.7	8.0	6.8	1.4	— .2	.0	.4
5	11.9	7.0	42.8	30.2	8.7	13.5	7.0	6.1	1.4	— .2	.1	.5
6	13.0	9.6	42.0	29.0	8.4	13.2	6.8	5.0	1.2	— .2	.1	.3
7	11.0	14.0	40.2	27.8	7.8	14.5	6.4	5.5	1.0	— .3	.3	.4
8	10.0	23.5	38.5	26.3	7.8	16.0	6.4	5.0	.7	— .3	.2	.4
9	9.5	28.0	36.7	24.5	8.0	17.0	7.6	5.0	.5	— .3	.5	.5
10	8.2	39.0	35.0	22.4	10.0	17.0	8.8	5.4	.4	.0	.9	.5
11	7.0	44.3	34.0	22.2	9.8	17.0	9.0	6.6	.4	.4	1.0	.5
12	7.9	48.0	31.3	20.7	9.0	16.0	8.0	6.1	.3	.5	1.1	.6
13	10.6	49.5	29.8	21.5	11.2	14.0	6.8	5.0	.2	.6	1.0	.3
14	12.8	50.2	27.5	20.8	16.0	11.0	6.6	4.6	.1	.4	1.0	.9
15	13.0	50.6	27.0	20.0	21.0	9.5	6.4	3.3	.1	.2	1.0	.9
16	12.0	49.9	27.0	20.3	25.0	8.6	5.8	3.0	.0	.4	.9	.9
17	11.3	49.0	27.0	20.8	30.0	8.0	6.5	2.8	.6	.4	.9	.9
18	10.0	47.7	26.3	20.9	31.2	7.4	8.8	4.0	1.3	.6	.8	.8
19	9.0	47.3	24.0	19.0	29.7	6.8	8.6	5.0	2.2	.6	.7	.6
20	7.9	47.8	21.3	17.6	24.0	6.5	7.0	6.7	2.5	.5	.7	.6
21	7.0	47.9	18.0	15.4	16.5	5.9	6.0	7.7	1.7	.5	.8	.5
22	6.4	47.0	16.0	17.2	11.8	5.9	5.0	7.4	1.5	.4	.8	.6
23	6.0	45.0	16.0	17.5	9.8	6.4	4.5	5.0	1.5	.4	.8	1.0
24	5.8	42.0	19.0	14.8	8.7	7.4	3.8	4.0	1.3	.4	.7	1.0
25	5.4	38.0	23.0	12.8	7.9	7.5	3.6	3.1	.8	.5	.8	1.0
26	5.2	33.8	25.1	11.7	7.6	7.5	3.5	3.0	.6	.6	.9	1.1
27	5.2	28.0	26.3	11.0	7.0	7.0	3.7	2.6	.6	.5	1.0	2.0
28	5.8	23.9	26.7	10.8	6.8	6.8	4.0	2.0	.6	.2	.8	3.0
29	6.0	.....	25.4	10.0	6.4	9.5	4.0	1.7	.6	.0	.5	3.1
30	7.0	.....	25.2	9.8	6.7	11.4	3.5	1.6	.5	.0	.5	2.6
31	7.2	.....	26.2	.....	6.5	.....	3.5	1.5	.....	.0	.....	1.8
1904												
1	1.6	4.7	8.3	7.4	2.0	0.0	0.5	1.5	2.9	—1.3	—1.3	—0.9
2	1.1	4.0	7.0	6.5	2.1	1.3	3.9	2.0	2.0	—1.4	—1.3	— .9
3	1.0	3.8	6.1	5.7	2.1	2.8	2.8	3.6	1.6	—1.4	—1.3	— .9
4	1.0	3.8	5.7	5.1	2.0	3.0	2.6	4.5	1.2	—1.4	—1.6	— .3
5	1.0	3.6	5.5	4.6	1.9	2.8	2.6	4.8	1.2	—1.5	—1.6	— .6
6	.9	3.5	5.4	4.2	1.6	2.6	1.9	3.5	.9	—1.6	—1.6	— .1
7	.9	4.0	5.4	4.0	1.4	2.7	2.0	4.8	.6	—1.6	—1.6	.4
8	1.0	6.8	6.1	4.2	1.2	2.3	1.7	8.7	.3	—1.7	—1.6	.7
9	1.0	11.0	9.7	5.1	1.2	2.0	1.5	16.4	.3	—1.8	—1.8	2.0
10	1.9	15.6	11.0	6.5	1.2	2.2	.8	22.5	.4	—1.8	—1.8	3.4
11	2.6	19.6	10.8	7.4	1.1	2.2	1.3	22.9	.3	—1.8	—1.6	4.0
12	3.9	21.0	10.0	7.0	1.1	1.4	1.3	20.3	.2	—1.8	—1.6	4.5
13	5.2	21.5	9.0	7.2	1.1	.8	1.3	17.5	— .2	—1.8	—1.4	4.5
14	4.0	19.9	7.9	7.2	.8	.7	.9	15.6	— .4	—1.8	—1.4	4.0
15	3.6	17.0	7.0	6.4	1.4	.5	1.7	11.0	— .8	—1.8	—1.4	3.0
16	2.7	13.0	7.3	5.2	1.6	.2	2.0	9.1	— .9	—1.8	—1.4	2.5
17	2.8	9.9	9.4	4.1	1.6	.0	.8	7.5	— .9	—1.8	—1.4	2.0
18	3.7	7.6	11.0	3.8	1.4	— .3	.5	6.6	—1.0	—1.8	—1.4	1.5
19	4.1	6.1	11.3	3.1	1.0	— .3	— .1	5.8	—1.0	—1.8	—1.4	1.0
20	5.1	5.7	10.1	2.9	1.0	— .4	— .3	5.2	—1.2	—1.8	—1.4	1.0
21	4.5	6.0	8.9	2.8	.8	— .5	— .1	4.0	—1.2	—1.8	—1.4	.5
22	4.7	7.0	7.5	2.5	.5	— .6	.0	3.5	—1.3	—1.8	—1.4	.5
23	5.6	8.3	6.5	2.3	.5	—1.1	.1	2.7	—1.3	—1.8	—1.2	— .5
24	10.9	10.0	5.7	2.1	.2	—1.1	.6	2.0	—1.3	—1.8	—1.0	—1.4
25	12.9	11.8	5.1	2.1	.0	—1.1	.8	1.8	—1.4	—1.8	— .6	—1.6
26	12.0	12.0	5.8	2.0	.0	—1.1	.8	2.5	—1.4	—1.8	— .6	—1.6
27	10.9	12.6	8.0	1.9	— .2	—1.0	.7	3.0	— .9	—1.8	— .6	—1.6
28	9.7	10.8	9.4	1.9	— .4	— .6	.5	4.0	— .4	—1.8	— .6	.0
29	8.1	9.7	9.7	1.9	— .5	— .3	.4	3.7	— .7	—1.8	— .8	1.0
30	6.6	.....	9.2	1.9	— .5	— .3	.8	4.0	—1.2	—1.8	— .9	6.4
31	5.4	.....	8.3	.....	— .2	.....	.9	3.8	.....	—1.8	.....	6.7

Daily gage height, in feet, of Alabama River at Selma, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1905												
1	7.0	4.8	19.9	7.0	5.2	12.6	5.0	2.2	2.4	—1.4	0.8	0.0
2	6.9	6.0	17.0	6.4	6.0	10.4	6.8	2.5	2.4	—1.4	.8	.2
3	6.5	6.2	13.0	6.0	6.0	8.0	6.5	2.5	1.0	—1.4	.8	2.4
4	5.4	5.7	10.5	6.0	6.5	6.0	5.0	2.5	1.0	—1.2	.4	4.6
5	4.2	5.6	9.0	5.7	6.8	6.0	5.0	2.0	1.0	.8	.4	13.8
6	3.3	6.2	8.2	5.6	6.8	4.5	4.5	1.6	1.0	.0	.4	16.7
7	3.0	9.7	7.8	5.6	6.2	3.8	4.5	1.6	1.0	.0	.2	17.5
8	2.5	13.7	7.2	6.0	6.0	3.0	4.2	1.6	1.0	.9	.2	17.5
9	2.5	18.5	7.2	6.7	6.0	2.8	2.5	1.6	1.0	.9	.2	16.6
10	2.5	24.0	7.7	8.3	7.8	2.4	2.5	1.6	1.0	.9	.2	14.6
11	2.7	29.5	8.6	8.5	8.5	1.8	3.0	2.0	.8	1.1	.4	14.6
12	5.0	33.6	9.7	7.5	7.5	1.6	3.5	2.0	.6	1.4	.4	16.0
13	13.2	37.5	9.5	7.3	6.3	1.4	4.8	4.0	.6	1.4	.6	18.4
14	25.5	39.9	9.5	7.5	5.5	1.4	7.0	5.0	.4	1.4	1.0	19.0
15	30.3	41.4	9.5	8.1	5.0	1.4	7.6	8.4	.2	1.9	1.2	18.6
16	32.8	42.0	9.3	8.3	6.0	1.4	8.6	7.6	.0	2.9	1.2	16.4
17	33.0	41.4	8.5	8.3	8.2	1.4	8.4	7.6	— .4	3.0	1.2	12.6
18	33.0	39.2	7.8	7.9	11.4	1.4	7.6	8.5	— .4	3.0	1.0	11.0
19	27.0	34.7	7.2	7.0	12.0	1.4	4.8	9.5	.4	2.4	.6	9.5
20	22.1	29.3	8.0	6.0	12.0	2.0	4.5	10.0	.4	1.8	.6	10.5
21	17.0	22.2	13.5	5.6	11.3	2.5	3.5	9.6	.4	1.5	.6	12.6
22	10.6	17.6	20.9	5.5	10.0	2.5	3.0	8.7	.0	1.5	.6	17.9
23	8.5	17.4	23.0	5.3	10.0	2.5	1.6	7.4	— .2	1.5	.4	20.7
24	7.2	20.2	22.6	5.3	10.0	2.0	1.6	5.0	— .4	1.0	.2	23.6
25	7.0	21.9	20.0	5.1	10.0	2.0	1.6	4.7	— .4	.5	.2	25.0
26	6.6	22.4	16.3	5.0	12.8	1.5	1.6	4.5	— .6	.5	.2	25.4
27	5.8	22.2	13.6	4.8	13.8	2.0	1.6	4.3	—1.0	.5	.2	24.0
28	5.0	21.4	11.0	4.8	15.9	2.0	1.6	3.0	—1.4	1.0	.0	20.8
29	4.5	.....	9.5	4.8	16.8	2.0	1.6	2.8	—1.4	.5	.0	17.0
30	4.0	.....	8.2	5.0	17.3	2.5	1.6	2.6	—1.4	.5	.0	14.6
31	3.8	.....	7.6	.....	14.0	.....	1.6	2.6	.....	1.0	.....	13.5
1906												
1	13.5	13.4	8.2	43.4	5.7	4.6	5.2	11.9	6.5	26.9	5.3	13.2
2	12.7	12.0	7.2	42.3	5.5	4.8	4.7	12.6	6.4	28.9	5.0	8.9
3	10.0	11.1	7.0	39.8	5.5	4.1	3.9	11.5	6.5	32.3	4.8	7.0
4	12.0	10.0	10.6	36.2	5.7	3.6	3.3	10.5	6.8	34.2	4.7	6.4
5	20.0	9.3	16.6	31.5	6.8	3.2	3.9	9.8	7.1	34.3	4.4	5.8
6	25.8	8.6	19.4	26.0	10.0	3.1	4.5	11.6	7.3	33.6	4.3	5.7
7	28.6	8.0	19.5	20.3	11.7	3.3	4.0	11.2	8.3	32.9	4.1	5.3
8	29.0	7.7	18.3	16.0	14.7	3.3	3.4	10.4	10.0	31.5	4.0	5.2
9	27.8	8.0	19.2	13.3	17.5	3.5	3.6	9.7	13.1	29.2	3.9	5.2
10	25.2	9.3	20.1	12.1	18.0	3.4	5.0	9.1	13.2	26.0	3.8	5.1
11	22.4	9.9	19.7	11.6	15.7	3.3	7.4	8.7	11.1	21.7	3.7	5.1
12	18.5	9.5	17.4	11.9	13.1	3.4	7.9	8.0	9.3	16.8	3.6	5.3
13	14.9	8.7	14.8	12.0	10.5	3.2	7.5	7.9	10.3	12.8	3.5	7.3
14	13.0	7.9	12.7	11.6	8.3	3.0	7.5	8.7	12.0	10.1	3.4	8.9
15	12.1	7.4	11.2	11.2	6.8	3.0	5.9	10.7	10.8	8.6	3.5	9.4
16	11.4	7.2	11.1	11.0	6.0	5.2	11.6	14.5	8.5	7.5	3.7	9.5
17	10.7	7.1	13.2	10.8	5.5	10.5	15.3	15.0	7.0	6.8	4.0	9.0
18	10.0	7.0	18.1	10.1	5.1	14.3	18.2	13.2	6.2	6.4	4.5	8.9
19	9.8	6.2	24.3	9.6	4.8	15.2	19.3	10.8	5.5	6.2	6.8	10.4
20	9.7	6.0	34.2	9.2	4.6	14.7	22.1	8.9	4.9	7.6	9.5	12.0
21	9.7	5.7	41.0	8.7	4.4	13.2	24.5	8.1	4.3	13.1	17.1	12.2
22	9.8	6.5	46.5	8.2	4.1	10.9	25.6	7.8	4.9	16.5	21.2	12.4
23	14.4	7.3	49.2	7.7	4.1	8.3	25.4	8.0	7.5	18.0	23.0	12.5
24	20.0	7.2	50.2	7.4	4.6	6.2	24.9	7.2	8.2	16.9	23.3	11.9
25	22.3	7.0	50.0	7.2	4.7	4.9	24.6	6.1	8.3	14.2	22.7	10.8
26	23.6	7.3	48.7	6.9	4.3	4.2	23.3	5.5	7.5	11.0	22.0	9.5
27	23.6	8.0	46.3	6.6	4.1	3.8	20.4	5.2	6.7	8.7	21.1	8.5
28	22.4	8.7	43.3	6.3	3.9	4.0	16.9	5.0	9.1	7.6	20.3	7.7
29	21.0	.....	42.5	6.0	3.8	4.1	13.5	5.5	15.1	6.6	19.6	7.5
30	18.9	.....	43.2	5.8	3.7	4.8	12.2	5.6	22.7	6.0	17.5	8.3
31	16.0	.....	43.6	.....	3.6	.....	11.9	6.1	.....	5.7	.....	10.6

Daily gage height, in feet, of Alabama River at Selma, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1907.												
1	17.3	7.8	19.8	6.0	15.8	10.2	9.1	7.2	1.8	4.5	0.0	15.5
2	23.5	10.4	26.3	6.1	15.7	11.0	8.6	6.7	1.3	3.4	.0	15.5
3	26.9	18.5	31.7	6.1	14.0	13.3	8.0	5.4	.9	2.9	.1	11.5
4	28.3	24.9	35.3	6.1	12.6	14.9	8.2	4.5	.8	2.8	.1	9.7
5	28.2	28.8	37.2	6.1	11.7	15.1	9.4	5.1	.7	4.4	.6	7.9
6	26.4	31.5	37.5	6.4	11.5	14.2	8.3	4.7	.6	4.0	.5	6.5
7	23.6	33.4	36.5	6.8	11.4	12.7	6.9	3.9	.8	3.1	.3	5.4
8	19.7	33.9	34.2	7.9	12.3	10.6	5.7	3.2	2.1	2.5	.3	4.7
9	15.4	32.6	30.7	7.7	16.3	8.7	4.6	3.0	1.7	1.9	.2	4.2
10	12.3	29.8	25.9	8.1	18.6	7.5	4.0	3.5	1.4	1.6	.4	4.7
11	10.7	25.4	20.0	8.4	20.1	6.7	3.9	4.1	1.9	1.6	.5	6.9
12	9.8	19.9	15.0	8.2	19.9	6.5	3.5	4.0	2.5	1.7	.8	11.0
13	9.2	15.4	12.5	7.5	19.1	6.4	3.2	3.9	3.0	1.6	.7	11.0
14	8.7	12.6	11.4	6.7	17.8	7.2	3.2	4.7	2.9	1.4	.9	11.4
15	8.3	11.1	10.8	6.1	16.2	8.5	3.5	4.3	2.9	1.0	.8	13.6
16	7.9	10.1	10.7	5.6	22.9	9.2	4.2	3.6	2.3	.8	.9	15.8
17	7.6	9.4	11.3	5.7	29.3	8.7	5.9	3.1	1.6	.5	.2	15.6
18	7.3	8.7	11.2	6.7	32.6	7.3	6.0	2.5	1.2	.4	2.1	14.6
19	7.0	8.3	10.6	11.7	33.5	6.5	5.5	2.2	1.0	.3	2.4	12.5
20	6.9	8.0	10.0	13.4	32.2	5.9	5.1	2.7	.6	.2	1.2	12.2
21	7.0	7.8	9.4	14.8	28.4	5.8	4.5	3.4	.4	.2	1.7	10.6
22	7.7	7.6	8.9	14.5	22.1	4.7	3.6	3.2	.1	.1	3.1	8.9
23	8.6	7.3	8.4	16.1	15.5	4.3	3.5	2.8	.1	.1	10.6	10.4
24	8.3	7.1	8.0	20.7	11.4	4.1	3.7	2.7	.3	.1	18.6	15.0
25	7.9	7.9	7.6	23.8	10.8	4.1	3.4	2.8	.2	.0	23.2	19.0
26	7.4	9.2	7.4	23.9	11.0	4.7	3.1	2.6	7.3	.0	24.6	20.1
27	7.0	11.3	7.0	20.9	11.4	5.4	3.0	2.4	8.6	.0	22.4	18.3
28	6.7	13.4	6.7	17.5	12.8	5.3	3.6	2.2	8.1	.0	20.7	16.0
29	6.5	.....	6.4	15.1	13.5	6.0	6.8	1.9	7.6	.0	18.2	16.5
30	6.3	.....	6.3	13.9	13.8	6.7	6.3	1.7	6.4	.0	16.8	20.7
31	6.6	.....	6.1	.....	11.6	.....	6.1	1.7	.....	.0	.....	25.0
1908.												
1	28.6	10.9	14.7	26.1	24.0	9.2	2.7	2.2	3.3	— .5	— .5	— .2
2	31.5	20.1	13.6	20.0	29.4	8.5	2.5	1.7	2.3	— .5	— .5	.0
3	32.0	25.3	13.6	14.6	21.4	7.5	2.2	1.7	1.6	— .7	.0	.3
4	30.5	28.0	12.7	11.8	14.5	6.6	2.0	1.8	1.1	— .7	.3	.6
5	27.3	29.0	11.6	10.8	10.5	6.0	2.2	1.9	.7	— .8	1.1	1.2
6	24.2	28.5	12.1	9.6	12.0	6.7	2.9	1.7	.5	— .9	2.4	1.5
7	22.2	22.4	12.5	9.1	17.1	6.5	3.3	1.4	.4	— .9	3.7	1.7
8	22.0	17.6	11.8	8.7	20.8	5.9	3.3	1.4	.4	— .9	2.5	1.9
9	22.5	14.8	11.0	8.4	20.9	5.3	3.7	2.0	2.2	— .8	1.6	2.1
10	22.5	13.3	10.1	8.4	17.2	5.1	4.5	2.6	4.2	— .7	1.0	10.2
11	22.0	12.5	9.6	8.4	13.7	5.1	6.3	3.3	5.1	— .6	.9	15.0
12	21.0	18.0	9.1	8.2	12.0	5.0	6.1	3.5	4.6	— .4	.9	16.7
13	21.6	20.6	8.7	8.0	11.0	4.8	5.2	3.1	3.5	— .3	.7	16.5
14	21.7	22.2	8.6	7.5	9.7	4.6	4.4	3.2	2.3	— .3	.6	15.2
15	20.5	23.8	8.4	7.1	8.4	5.0	4.4	2.9	1.4	— .2	.3	12.1
16	18.1	21.3	8.4	8.0	7.9	5.1	4.8	2.4	.8	1.9	.2	8.3
17	16.2	35.0	8.4	12.3	7.7	4.6	4.1	1.7	.5	1.8	.0	5.5
18	14.9	37.6	8.4	14.9	7.9	4.3	3.1	1.2	.2	1.0	— .1	4.0
19	13.5	42.1	8.3	14.4	9.6	4.1	2.6	.7	.1	.5	— .2	3.3
20	12.3	43.0	7.8	13.5	11.2	3.8	2.2	.6	.0	— .1	— .2	2.9
21	11.2	42.7	7.6	12.5	12.4	3.6	2.0	.8	— .1	— .2	— .3	2.7
22	10.4	38.7	7.3	11.7	11.5	3.5	2.1	1.0	— .1	— .4	— .2	2.5
23	10.0	36.5	8.9	12.7	9.8	3.5	2.2	1.4	— .2	— .5	.0	2.4
24	9.6	33.1	18.1	13.9	8.2	3.8	2.4	2.4	— .3	— .6	.0	5.7
25	9.4	27.5	27.7	15.4	7.4	3.5	2.2	4.0	— .4	— .6	— .1	10.4
26	9.0	21.7	34.3	22.1	6.8	4.0	2.4	4.7	— .5	— .7	— .1	12.7
27	8.4	18.0	38.7	29.4	6.4	4.4	2.2	4.4	— .4	— .8	— .2	12.3
28	7.8	16.4	39.4	33.5	6.9	4.4	2.3	4.0	— .3	— .7	— .2	12.6
29	7.1	15.2	37.2	35.2	7.5	3.7	2.8	4.8	— .2	— .7	— .3	10.8
30	7.1	.....	34.6	35.5	8.4	3.1	2.5	4.4	— .4	— .7	— .3	8.4
31	6.9	.....	30.9	.....	8.9	.....	2.3	3.9	.....	— .6	.....	6.4

Daily gage height, in feet, of Alabama River at Selma, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1909												
1	5.1	3.4	28.0	19.9	33.9	16.5	13.3	5.5	2.3	2.4	0.8	1.5
2	4.3	3.1	26.9	17.6	33.1	15.2	12.4	6.6	2.3	2.0	.8	1.4
3	3.8	2.8	25.2	16.1	33.8	14.9	11.9	7.2	3.1	1.6	.9	1.3
4	3.5	2.6	19.2	14.3	34.4	16.3	10.9	8.9	3.8	1.3	1.2	1.2
5	3.2	2.5	15.7	12.6	33.9	25.0	9.6	15.2	5.8	1.2	1.2	1.1
6	3.1	2.8	13.5	11.3	32.4	31.7	8.6	21.3	5.8	1.1	1.0	1.1
7	3.5	3.1	12.6	10.6	30.2	34.2	7.7	22.4	4.5	1.0	.9	1.0
8	5.5	5.2	11.8	10.3	27.2	34.3	7.1	21.0	3.3	.9	.8	1.2
9	8.1	6.8	12.3	11.2	23.2	33.1	6.7	20.2	2.7	.8	.7	1.9
10	10.5	8.7	23.2	12.4	18.2	30.5	6.9	18.9	2.8	.8	6	4.4
11	11.0	16.0	32.3	13.0	14.1	27.7	7.9	15.4	3.6	.7	.5	5.4
12	9.5	20.8	40.5	12.9	12.6	25.2	9.4	11.3	3.6	.6	.5	6.9
13	7.6	22.2	45.0	12.5	12.4	23.4	11.7	8.8	2.9	.6	5	8.3
14	6.0	21.9	48.0	12.3	11.9	21.7	11.8	7.9	2.6	.7	.5	8.1
15	5.0	23.8	50.4	13.0	11.6	19.0	10.4	7.4	2.6	.5	.5	8.8
16	4.5	29.0	51.9	13.1	10.6	17.0	10.7	6.9	2.6	.6	.5	8.8
17	6.0	33.8	52.7	12.6	9.6	15.9	10.4	6.4	2.6	.5	5	8.1
18	8.0	38.0	52.9	12.1	9.7	14.9	9.8	6.5	2.8	.8	.6	8.1
19	9.5	38.9	52.6	11.6	10.6	13.1	9.8	6.6	2.7	1.5	7	7.7
20	11.7	38.7	51.7	10.6	11.2	11.5	9.8	6.5	2.5	5.0	9	6.7
21	13.4	37.4	51.2	9.6	11.7	11.0	8.2	5.6	2.2	5.8	1.1	5.7
22	13.7	35.7	50.5	8.9	11.8	13.3	7.0	5.0	2.4	4.7	1.0	5.0
23	12.8	33.9	50.6	8.5	11.2	16.9	6.3	4.4	3.2	3.3	.9	4.5
24	11.0	32.2	50.6	9.3	12.4	17.9	6.0	4.0	4.7	2.6	1.0	3.9
25	8.9	30.9	50.2	14.7	13.3	17.9	5.9	3.6	5.3	2.1	1.6	3.5
26	7.0	30.8	49.0	21.1	13.9	16.9	5.9	3.2	4.2	1.8	2.3	3.4
27	5.8	29.4	46.6	28.2	15.2	16.5	6.1	3.0	3.2	1.6	2.6	3.9
28	5.1	28.9	42.5	30.0	16.7	16.1	5.5	2.8	2.6	1.4	2.2	5.0
29	4.6	.....	38.7	32.8	19.1	15.4	5.3	2.6	2.3	1.3	1.7	5.6
30	4.1	.....	30.2	33.9	20.4	14.1	5.2	2.5	2.5	1.2	1.6	6.0
31	3.8	.....	24.1	.....	19.2	.....	5.0	2.4	.....	9	.....	5.9
1910												
1	5.2	10.2	14.5	2.7	2.1	12.0	11.2	4.9	1.1	−0.2	−0.5	0.1
2	4.4	9.0	13.4	2.5	2.0	9.3	14.9	4.5	1.1	− .1	− .5	.2
3	3.7	7.7	21.6	2.4	2.0	7.1	20.4	4.5	1.3	.8	− .4	.4
4	3.2	7.0	22.1	2.3	2.9	5.6	25.4	4.0	1.4	.3	− .4	.3
5	2.9	7.6	22.8	2.1	2.7	4.4	26.0	3.9	2.0	.3	− .3	.3
6	2.6	8.3	21.1	2.3	2.6	4.2	21.0	3.6	4.6	.3	− .2	.7
7	2.6	7.2	18.2	2.4	2.5	3.9	21.5	4.2	7.7	1.0	− .1	1.8
8	3.2	6.0	15.0	2.5	2.3	4.0	20.0	5.9	7.2	1.4	.0	4.2
9	6.0	5.3	12.4	2.4	2.2	5.7	23.0	8.8	5.5	1.4	.0	4.9
10	8.9	4.8	10.6	2.2	2.1	7.7	25.7	11.6	3.9	2.1	− .1	5.8
11	9.7	4.3	9.6	2.9	2.2	10.2	23.1	10.9	2.8	2.9	.0	7.7
12	9.2	5.1	8.9	2.7	2.7	11.5	20.5	9.1	2.6	3.1	− .1	7.9
13	8.1	6.9	8.9	2.9	4.2	12.7	18.0	8.1	2.4	2.3	− .2	6.5
14	6.3	7.7	9.7	3.1	6.9	13.1	16.6	9.0	2.2	1.9	− .2	4.9
15	5.6	8.5	9.8	3.7	7.1	12.1	14.6	9.4	2.0	1.9	− .3	3.5
16	4.7	7.8	9.1	4.0	5.9	11.2	12.3	7.0	1.9	1.7	− .3	2.4
17	4.1	7.2	8.1	5.5	4.4	11.1	10.5	5.0	1.5	1.3	− .3	1.7
18	3.7	6.5	7.3	7.5	3.4	10.6	9.8	3.9	1.0	.8	− .3	1.5
19	3.4	12.7	6.6	12.3	3.0	9.9	9.4	3.3	1.2	.4	− .4	1.5
20	3.3	19.1	6.1	14.1	3.1	7.4	9.0	3.0	1.0	.3	− .3	1.4
21	3.2	21.2	5.7	13.8	3.4	6.2	8.5	2.9	.6	.1	− .2	1.4
22	3.4	22.4	5.6	12.8	3.9	5.7	7.4	3.2	.4	− .1	− .2	1.3
23	3.8	22.7	5.5	10.8	7.2	5.2	6.9	3.2	.3	− .2	− .2	1.2
24	4.9	22.2	5.2	8.4	13.5	5.9	6.4	2.8	.1	− .3	− .1	1.1
25	5.7	20.7	5.0	6.4	17.2	6.0	11.4	2.3	.1	− .4	− .3	1.1
26	6.2	19.4	4.8	5.2	19.4	6.0	11.8	2.0	.0	− .5	− .2	1.0
27	6.6	17.9	4.7	4.4	20.4	5.8	10.3	1.9	.0	− .5	− .2	1.1
28	6.9	15.7	4.5	3.9	20.2	5.5	8.9	1.7	.1	− .4	− .3	1.1
29	7.7	.....	4.3	3.6	19.0	5.0	8.3	1.5	.0	− .4	− .4	1.0
30	9.7	.....	4.1	3.3	17.3	6.9	8.0	1.3	− .1	− .3	− .1	1.3
31	11.0	.....	3.9	.....	14.8	.....	8.2	1.1	.....	− .4	.....	1.8

Daily gage height, in feet, of Alabama River at Selma, Ala.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1911												
1	2.6	2.8	6.0	7.7	9.6	2.8	2.5	2.2	−0.5	−0.9	−0.3	2.9
2	4.8	2.9	5.4	6.9	10.4	2.2	1.8	1.8	− .5	−1.1	− .4	3.0
3	10.2	2.9	5.0	6.0	11.9	1.8	1.5	2.2	− .6	−1.2	− .5	2.9
4	20.4	2.7	5.0	5.0	12.4	1.6	1.7	4.5	− .7	−1.3	− .6	2.6
5	26.2	2.7	5.2	4.6	11.3	1.5	1.2	8.1	− .6	−1.2	− .7	2.2
6	28.8	2.8	5.3	6.4	9.3	1.3	.7	8.8	− .4	−1.1	− .7	1.9
7	29.5	2.8	5.3	14.1	7.2	1.1	.3	9.0	.3	−1.2	− .6	1.6
8	28.0	3.3	5.0	18.4	5.8	1.3	.6	7.4	1.4	−1.3	− .4	1.4
9	25.0	4.5	4.7	20.0	5.0	1.9	1.2	5.5	2.1	−1.5	.5	1.2
10	21.3	5.9	4.5	21.4	4.5	1.8	1.3	4.4	1.8	−1.3	1.3	.9
11	17.5	8.5	4.0	23.9	4.1	1.5	.8	3.2	1.3	−1.2	6.2	.7
12	13.4	11.7	3.9	26.4	3.8	1.3	1.3	2.9	.7	−1.0	8.5	.6
13	9.8	14.0	4.0	28.0	3.6	1.2	2.6	1.6	.2	− .9	8.5	.5
14	7.7	16.4	3.8	28.1	3.3	.9	2.9	2.1	.2	−1.0	8.0	.6
15	6.5	17.1	3.6	27.3	3.1	.6	3.8	2.5	− .1	−1.2	7.0	.5
16	5.9	16.2	3.4	25.7	2.8	.4	4.6	3.0	− .3	−1.1	5.5	.7
17	5.4	14.6	3.0	22.7	2.6	.2	4.8	3.2	− .5	1.7	4.3	.9
18	5.0	12.4	2.8	20.7	2.4	.2	5.8	2.6	− .3	1.5	3.7	1.1
19	4.5	10.4	2.7	18.3	2.3	.4	7.3	2.5	− .8	.8	3.5	1.4
20	4.3	7.5	2.7	13.7	2.2	.3	8.9	2.2	− .7	.4	3.4	2.0
21	4.0	9.7	3.0	12.6	2.2	.6	8.9	2.5	− .5	− .1	3.2	2.9
22	3.9	10.8	3.5	12.4	2.4	1.5	8.6	2.9	− .5	2.8	3.1	3.1
23	3.7	10.7	3.5	11.9	3.0	2.2	7.2	2.5	− .4	5.5	3.1	13.1
24	3.5	9.6	3.5	11.7	4.8	2.1	6.4	2.2	− .5	4.9	3.0	17.6
25	3.5	8.8	3.4	11.0	8.0	2.5	6.4	1.6	− .6	3.3	2.9	20.9
26	3.4	8.4	4.0	9.9	8.5	2.4	5.3	1.1	− .9	1.8	2.3	21.4
27	3.3	7.5	4.0	8.6	7.6	2.4	4.3	.3	− .8	.9	1.9	21.0
28	3.0	6.7	4.9	8.1	6.2	2.1	4.6	.4	− .8	.4	1.4	21.3
29	2.9	.....	7.9	9.0	5.3	2.4	4.7	.1	− .6	.1	1.7	22.1
30	2.9	.....	8.2	10.2	4.5	2.3	3.9	− .1	− .7	.1	2.5	22.1
31	2.8	.....	8.0	.....	3.7	.....	2.8	− .3	.....	.0	.....	22.1
1912												
1	22.9	40.0	36.1	40.4	34.1	7.1	12.5	5.1	4.6	7.4	2.7	2.0
2	23.6	42.1	34.1	41.7	33.0	10.3	12.5	4.6	4.1	6.6	2.4	1.7
3	23.9	42.5	32.4	41.8	31.3	13.4	11.6	4.5	3.6	5.2	2.2	1.8
4	23.5	40.1	28.4	41.1	28.6	13.3	11.4	4.6	3.3	4.2	2.1	2.0
5	22.5	37.1	26.6	39.7	25.1	11.5	10.6	5.3	3.1	3.7	2.1	4.0
6	20.8	29.2	25.3	37.6	22.4	9.4	10.8	6.0	3.0	3.6	2.1	6.5
7	18.1	21.5	24.3	34.9	20.5	8.7	11.5	5.5	2.8	3.6	2.6	9.6
8	15.5	14.7	24.2	32.3	18.7	8.9	10.8	5.0	2.6	4.4	4.0	11.3
9	17.5	11.3	24.8	28.6	18.4	9.0	10.5	5.4	2.5	5.5	5.0	12.0
10	23.2	10.4	23.2	23.1	19.7	9.0	12.4	8.3	2.4	5.7	5.1	11.7
11	27.0	9.5	22.6	17.8	20.1	8.1	13.4	10.3	2.2	4.9	4.8	10.2
12	27.8	10.2	22.9	15.0	20.0	7.5	12.4	11.5	2.2	3.8	4.3	8.7
13	26.1	11.5	24.2	14.1	20.8	7.0	11.0	14.9	2.2	3.1	4.0	7.8
14	22.4	11.6	24.9	14.3	22.1	7.5	10.6	16.8	2.2	2.7	3.9	6.6
15	17.8	12.9	26.9	15.7	19.5	10.5	11.9	15.0	2.4	2.5	3.5	5.5
16	13.8	17.9	35.4	17.5	16.2	16.4	13.5	11.5	3.4	2.4	3.0	5.0
17	11.3	20.3	40.7	25.2	13.5	17.6	13.6	8.7	5.6	2.5	2.6	4.5
18	9.7	21.9	44.2	35.9	12.1	15.9	13.5	7.6	6.5	3.0	2.4	4.4
19	8.9	23.0	46.2	41.8	11.2	14.7	16.8	9.2	5.3	6.4	2.2	4.3
20	8.8	23.1	46.4	44.2	10.5	13.4	17.6	9.8	4.4	6.3	2.2	4.5
21	10.2	22.5	45.1	46.2	10.0	11.1	14.8	9.0	4.0	8.1	2.3	4.7
22	10.9	22.7	42.5	47.3	9.5	9.1	12.8	7.6	4.2	9.4	2.2	4.6
23	9.6	24.0	39.0	48.4	9.2	7.6	10.8	6.9	4.3	9.0	2.1	4.5
24	8.9	25.5	35.5	48.6	8.9	6.7	10.8	6.9	4.6	7 9	1.9	8.0
25	8.2	28.5	34.2	48.6	8.5	6.2	9.9	6.8	8.0	7 7	1.9	13.3
26	7.6	31.8	35.6	48.2	8.2	6.8	8.4	6.6	9.7	6.8	1 9	17.3
27	7.0	36.0	37.0	46.8	8.0	6.9	7.4	6.8	8.5	5.4	1.8	17.9
28	6.6	37.0	37.0	43.9	7.7	7.1	6.6	7.1	8.7	4.4	1.8	16.7
29	11.4	37.0	37.0	39.8	7.4	8.1	6.3	6.9	8.8	3.7	1.9	15.6
30	25.3	.....	37.1	36.3	7.2	10.3	5.8	6.2	8.1	3.2	1.9	13.5
31	33.9	.....	36.5	.....	7.1	.....	5.5	5.5	.....	3.0	.....	11.8

Daily gage height, in feet, of Alabama River at Selma, Ala.—Continued.

Day	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1913												
1	10.5	37.7	25.2	32.2	7.5	6.1	3.2	7.1	0.7	4.4	1.7	0.1
2	9.9	36.1	29.9	30.7	7.1	5.2	2.9	7.1	1.1	6.5	1.5	.3
3	9.5	34.4	32.2	28.6	6.9	4.0	2.6	5.9	1.0	11.9	1.3	.6
4	9.5	33.8	32.8	26.6	6.6	4.4	2.9	5.5	.9	12.5	1.2	.9
5	10.1	33.6	31.8	22.3	6.4	4.5	2.9	5.4	1.2	9.9	1.0	4.0
6	10.3	33.8	29.6	18.0	6.2	5.7	2.8	5.5	2.2	7.2	.7	6.1
7	10.1	32.9	27.0	15.7	5.9	6.5	2.8	4.3	2.4	4.9	.6	5.6
8	9.6	30.2	23.9	13.9	5.8	6.2	2.4	3.5	2.6	3.3	.4	4.2
9	9.3	25.3	19.1	12.7	5.7	7.4	2.1	3.0	2.1	2.5	.2	3.8
10	9.2	20.4	17.3	12.0	5.6	10.2	1.9	3.2	2.0	1.8	.2	3.0
11	9.2	15.6	21.2	12.6	5.5	9.9	1.7	2.9	1.6	1.2	.3	2.9
12	9.0	13.2	27.1	13.1	5.7	9.4	1.9	3.2	1.5	.6	.1	3.0
13	9.7	12.5	32.9	13.4	5.9	7.7	2.6	3.9	2.2	.5	.0	2.9
14	11.5	17.2	36.7	12.9	5.8	7.1	2.7	3.4	2.2	.3	.1	2.5
15	12.9	21.7	40.8	12.0	5.7	6.6	4.0	2.9	1.5	.0	.1	2.4
16	13.1	24.2	43.9	11.1	5.4	5.7	4.9	2.4	1.7	.0	.1	2.3
17	12.6	24.3	46.9	10.6	5.2	4.8	4.2	2.3	2.1	−.1	.3	2.1
18	11.6	23.1	48.9	10.1	5.2	4.2	3.4	2.1	2.3	.0	.4	2.0
19	10.5	20.5	49.4	9.6	5.4	3.8	3.2	1.9	2.1	.0	.4	1.8
20	10.5	18.5	48.4	9.1	5.7	3.5	3.2	1.7	2.3	.1	.3	1.7
21	11.0	13.9	46.1	8.8	5.3	3.2	2.9	2.0	2.3	.4	.2	1.6
22	11.2	14.9	44.2	8.5	5.0	2.9	2.5	2.2	2.0	.6	.2	1.5
23	10.9	16.6	42.5	8.2	5.3	2.8	2.7	1.9	1.5	1.1	.2	1.5
24	10.4	17.7	41.4	7.8	5.7	2.6	3.3	1.9	1.0	1.5	.1	1.3
25	12.1	18.0	39.8	7.6	7.2	2.4	3.9	2.0	.9	1.4	.1	1.3
26	18.1	17.1	36.8	7.5	8.8	2.4	4.0	2.2	.8	3.1	.0	2.0
27	22.8	16.8	33.0	7.6	9.0	2.7	4.3	1.6	.9	4.9	.0	2.4
28	27.9	19.8	30.9	8.3	8.8	2.9	4.5	1.4	.9	4.3	.0	2.8
29	32.1	.....	31.5	8.6	8.9	3.0	4.4	1.4	1.1	3.2	.0	3.8
30	36.3	.....	32.7	8.1	8.4	2.8	4.7	1.1	1.8	2.4	.0	4.5
31	37.8	.....	33.0	.....	7.5	.....	6.0	.9	.....	1.9	.....	3.4

Rating table for Alabama River at Selma, Ala., for 1900, 1901 and 1902.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
0.0	6,700	2.6	9,582	7.4	20,584	23.0	62,080
.1	6,770	2.7	9,676	7.6	21,116	24.0	64,740
.2	6,845	2.8	9,822	7.8	21,648	25.0	67,400
.3	6,925	2.9	9,970	8.0	22,180	26.0	70,060
.4	7,010	3.0	10,120	8.2	22,712	27.0	72,720
.5	7,100	3.2	10,428	8.4	23,244	28.0	75,380
.6	7,184	3.4	10,752	8.6	23,776	29.0	78,040
.7	7,282	3.6	11,092	8.8	24,308	30.0	80,700
.8	7,384	3.8	11,448	9.0	24,840	31.0	83,360
.9	7,488	4.0	11,820	9.2	25,372	32.0	86,020
1.0	7,596	4.2	12,220	9.4	25,904	33.0	88,680
1.1	7,706	4.4	12,660	9.6	26,436	34.0	91,340
1.2	7,818	4.6	13,150	9.8	26,968	35.0	94,000
1.3	7,931	4.8	13,668	10.0	27,500	36.0	96,660
1.4	8,045	5.0	14,200	11.0	30,160	37.0	99,320
1.5	8,160	5.2	14,732	12.0	32,820	38.0	101,980
1.6	8,270	5.4	15,264	13.0	35,480	39.0	104,640
1.7	8,393	5.6	15,796	14.0	38,140	40.0	107,300
1.8	8,511	5.8	16,328	15.0	40,800	41.0	109,960
1.9	8,630	6.0	16,860	16.0	43,460	42.0	112,620
2.0	8,750	6.2	17,392	17.0	46,120	43.0	115,280
2.1	8,872	6.4	17,924	18.0	48,780	44.0	117,940
2.2	8,996	6.6	18,456	19.0	51,440	45.0	120,600
2.3	9,124	6.8	18,988	20.0	54,100	46.0	123,260
2.4	9,256	7.0	19,520	21.0	56,760	47.0	125,920
2.5	9,392	7.2	20,052	22.0	59,420		

Rating table for Alabama River at Selma, Ala., for 1903.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
—0.30	6,262	2.50	10,050	7.60	20,680	25.00	65,950
— .20	6,364	2.60	10,220	7.80	21,120	26.00	68,700
— .10	6,470	2.70	10,400	8.00	21,560	27.00	71,450
.00	6,580	2.80	10,590	8.20	22,000	28.00	74,200
.10	6,692	2.90	10,780	8.40	22,440	29.00	76.950
.20	6,806	3.00	10,970	8.60	22,880	30.00	79,700
.30	6,922	3.20	11,370	8.80	23,320	31.00	82,450
.40	7,040	3.40	11,770	9.00	23,760	32.00	85,200
.50	7,160	3.60	12,170	9.20	24,220	33.00	87,950
.60	7,282	3.80	12,570	9.40	24,680	34.00	90,700
.70	7,406	4.00	12,970	9.60	25,140	35.00	93,450
.80	7,532	4.20	13,370	9.80	25,600	36.00	96,200
.90	7,660	4.40	13,770	10.00	26,060	37.00	98,950
1.00	7,790	4.60	14,190	11.00	28,360	38.00	101,700
1.10	7,920	4.80	14,610	12.00	30,660	39.00	104,450
1.20	8,060	5.00	15,030	13.00	33,110	40.00	107,200
1.30	8,200	5.20	15,450	14.00	35,750	41.00	109,950
1.40	8,340	5.40	15,870	15.00	38,450	42.00	112,700
1.50	8,480	5.60	16,290	16.00	41,200	43.00	115,450
1.60	8,620	5.80	16,720	17.00	43,950	44.00	118,200
1.70	8,770	6.00	17,160	18.00	46,700	45.00	120,950
1.80	8,920	6.20	17,600	19.00	49,450	46.00	123,700
1.90	9,070	6.40	18,040	20.00	52,200	47.00	126,450
2.00	9,230	6.60	18,480	21.00	54,950	48.00	129,200
2.10	9,390	6.80	18,920	22.00	57,700	49.00	131,950
2.20	9,550	7.00	19,360	23.00	60,450	50.00	134,700
2.30	9,710	7.20	19,800	24.00	63,200	51.00	137,450
2.40	9,880	7.40	20,240				

Station rating table for Alabama River at Selma, Ala., for 1904 and 1905.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
—2.00	3,000	0 .00	6,100	2.10	9,790	5.40	16,240
—1.90	3,150	.10	6,270	2.20	9,980	5.60	16,660
—1.80	3,300	.20	6,440	2.30	10,170	5.80	17,080
—1.70	3,450	.30	6,610	2.40	10,360	6.00	17,500
—1.60	3,600	.40	6,780	2.50	10,550	6.20	17,920
—1.50	3,750	.50	6,950	2.60	10,740	6.40	18,340
—1.40	3,900	.60	7,120	2.70	10,930	6.60	18,760
—1.30	4,050	.70	7,290	2.80	11,120	6.80	19,180
—1.20	4,200	.80	7,460	2.90	11,310	7.00	19,600
—1.10	4,350	.90	7,630	3.00	11,500	8.00	21,800
—1.00	4,500	1.00	7,800	3.20	11,880	9.00	24,000
— .90	4,660	1.10	7,980	3.40	12,260	10.00	26,300
— .80	4,820	1.20	8,160	3.60	12,640	11.00	28,600
— .70	4,980	1.30	8,340	3.80	13,020	12.00	31,000
— .60	5,140	1.40	8,520	4.00	13,400	13.00	33,450
— .50	5,300	1.50	8,700	4.20	13,800	14.00	36,000
— .40	5,460	1.60	8,880	4.40	14,200	15.00	38,600
— .30	5,620	1.70	9,060	4.60	14,000	16.00	41,300
— .20	5,780	1.80	9,240	4.80	15,000	17.00	44,000
— .10	5,940	1.90	9,420	5.00	15,400	18.00	46,700
		2.00	9,600	5.20	15,820		

The above table is fairly well defined to gage height 34 feet. It has been extended beyond this limit. Above gage height 18 feet, the rating is same as rating for 1903.

Rating table for Alabama River at Selma, Ala., for 1906, 1907 and 1908

Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.
Feet.	*Sec.-ft.*	*Feet.*	*Sec.-ft.*	*Feet.*	*Sec.-ft.*	*Feet.*	*Sec.-ft.*
—0.90	4,660	1.40	8,520	4.40	14,200	21.00	54,500
— .80	4,820	1.50	8,700	4.60	14,600	22.00	57,200
— .70	4,980	1.60	8,880	4.80	15,000	23.00	59,900
— .60	5,140	1.70	9,060	5.00	15,400	24.00	62,600
— .50	5,300	1.80	9,240	5.20	15,820	25.00	65,300
— .40	5,460	1.90	9,420	5.40	16,240	26.00	68,000
— .30	5,620	2.00	9,600	5.60	16,660	27.00	70,800
— .20	5,780	2.10	9,790	5.80	17,080	28.00	73,600
— .10	5,940	2.20	9,980	6.00	17,500	29.00	76,400
0.00	6,100	2.30	10,170	7.00	19,600	30.00	79,200
.10	6,270	2.40	10,360	8.00	21,800	31.00	82,000
.20	6,440	2.50	10,550	9.00	24,000	32.00	84,800
.30	6,610	2.60	10,740	10.00	26,300	33.00	87,600
.40	6,780	2.70	10,930	11.00	28,600	34.00	90,400
.50	6,950	2.80	11,120	12.00	31,000	35.00	93,200
.60	7,120	2.90	11,310	13.00	33,450	36.00	96,000
.70	7,290	3.00	11,500	14.00	36,000	37.00	98,900
.80	7,460	3.20	11,880	15.00	38,600	38.00	101,800
.90	7,630	3.40	12,260	16.00	41,200	39.00	104,700
1.00	7,800	3.60	12,640	17.00	43,800	40.00	107,600
1.10	7,980	3.80	13,020	18.00	46,400	41.00	110,500
1.20	8,160	4.00	13,400	19.00	49,100	42.00	113,400
1.30	8,340	4.20	13,800	20.00	51,800	43.00	116,300

NOTE.—The above table is not applicable for obstructed-channel conditions. It is based on 32 discharge measurements made during 1900–1906 and is well defined. Above gage height 18 feet the rating curve is a tangent, the difference being 275 per tenth.

Daily discharge, in second-feet, of Alabama River at Selma, Ala.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1908												
1.	15,600	12,300	73,600	51,500	90,100	42,500	34,200	16,400	10,200	10,400	7,460	8,700
2.	14,000	11,700	70,500	45,400	87,900	39,100	32,000	18,800	10,200	9,600	7,460	8,520
3.	13,000	11,100	65,800	41,500	89,800	38,300	30,800	20,000	11,700	8,880	7,630	8,340
4.	12,400	10,700	49,600	36,800	91,500	47,200	28,400	23,800	13,000	8,340	8,160	8,160
5.	11,900	10,600	40,400	32,400	90,100	65,300	25,400	30,100	17,100	8,160	8,160	7,980
6.	11,700	11,100	34,700	29,300	85,900	84,000	23,100	55,300	17,100	7,980	7,800	7,980
7.	12,400	11,700	32,400	27,700	79,800	91,000	21,100	58,100	14,400	7,800	7,630	7,800
8.	16,400	15,800	30,500	27,000	71,400	91,200	19,800	54,500	12,100	7,630	7,460	8,160
9.	22,000	19,200	31,700	29,100	60,400	87,900	19,000	52,300	10,900	7,460	7,290	9,420
10.	27,400	23,300	60,400	32,000	46,900	80,600	19,400	48,800	11,100	7,460	7,120	14,200
11.	28,600	41,200	85,600	33,400	36,300	72,800	21,600	39,600	12,600	7,290	6,950	16,200
12.	25,200	54,000	109,000	33,200	32,400	65,800	24,900	29,300	12,600	7,120	6,950	19,400
13.	20,900	57,700	122,000	32,200	32,000	61,000	30,300	23,600	11,300	7,120	6,950	22,500
14.	17,500	56,900	131,000	31,700	30,800	56,400	30,500	21,600	10,700	7,290	6,950	22,000
15.	15,400	62,000	138,000	33,400	30,000	49,100	27,200	20,500	10,700	6,950	6,950	23,600
16.	14,400	76,400	143,000	33,700	27,700	43,800	27,900	19,400	10,700	7,120	6,950	23,600
17.	17,500	87,000	145,000	32,400	25,400	40,900	27,200	18,300	10,700	6,950	6,950	22,000
18.	21,800	102,000	146,000	31,200	25,600	38,300	25,800	18,600	11,100	7,460	7,120	22,000
19.	25,200	104,000	145,000	30,000	27,700	33,700	25,800	18,800	10,900	8,700	7,290	21,100
20.	30,300	104,000	142,000	27,700	29,100	29,800	25,800	18,600	10,600	15,400	7,630	19,000
21.	34,400	100,000	141,000	25,400	30,300	28,600	22,200	16,700	9,980	17,100	7,980	16,900
22.	35,200	95,200	138,000	23,800	30,500	34,200	19,600	15,400	10,400	14,800	7,800	15,400
23.	33,000	90,100	139,000	22,900	29,100	43,500	18,100	14,200	11,900	12,100	7,630	14,400
24.	28,600	85,400	139,000	24,700	32,000	46,100	17,500	13,400	14,800	10,700	7,800	13,200
25.	23,900	81,700	138,000	37,800	34,200	46,100	17,300	12,600	16,000	9,790	8,880	12,400
26.	19,600	78,600	134,000	54,800	35,700	43,500	17,300	11,900	13,800	9,240	10,200	12,300
27.	17,100	77,500	127,000	68,600	39,100	42,500	17,700	11,500	11,900	8,880	10,700	13,200
28.	15,600	76,100	115,000	79,200	43,000	41,500	16,400	11,100	10,700	8,520	9,980	15,400
29.	14,600	.....	98,000	87,000	49,400	39,600	16,000	10,700	10,200	8,340	9,060	16,700
30.	13,800	.....	79,800	90,100	52,900	36,300	15,800	10,600	10,600	8,160	8,880	17,500
31.	13,000	.....	62,900	.....	49,600	.....	15,400	10,400	.....	7,630	.....	17,300

Daily discharge, in second-feet, of Alabama River at Selma, Ala.—Cont'd.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1910												
1	15,800	26,800	37,300	12,800	11,700	31,000	29,100	15,200	7,980	5,780	5,300	6,270
2	14,200	24,000	47,500	12,400	11,500	24,700	38,300	15,000	7,980	5,940	5,300	6,440
3	12,800	21,100	56,100	12,300	11,500	19,800	52,900	14,400	8,340	7,460	5,460	6,780
4	11,900	19,600	60,200	12,100	11,300	16,400	66,400	13,400	8,520	7,460	5,460	6,440
5	11,300	20,900	59,400	11,700	10,900	14,200	76,400	13,200	9,600	6,610	5,620	6,610
6	10,700	22,500	54,800	12,100	10,700	13,800	82,000	12,600	14,600	6,610	5,780	7,290
7	10,700	20,000	46,900	12,300	10,600	13,200	83,400	13,800	21,100	7,800	5,940	9,240
8	11,900	17,500	38,600	12,400	10,200	13,400	79,200	17,300	20,000	8,520	6,100	13,800
9	17,500	16,000	32,000	12,300	9,980	16,900	73,600	13,600	16,400	8,520	6,100	15,200
10	23,800	15,000	27,700	11,900	9,790	21,100	67,200	30,000	13,200	9,790	5,940	16,000
11	25,600	14,000	25,400	11,300	9,980	26,800	60,200	28,400	11,100	11,300	6,100	21,100
12	24,500	15,600	23,800	10,900	10,900	29,800	53,200	24,200	10,700	11,700	5,940	21,600
13	22,000	19,400	23,800	11,300	13,800	32,700	46,400	22,000	10,400	10,200	5,780	18,600
14	19,200	23,300	25,600	11,700	19,400	33,700	42,800	24,000	9,980	9,420	5,780	15,200
15	16,700	22,900	25,800	12,800	19,800	31,200	37,600	24,900	9,600	9,420	5,620	12,400
16	14,800	21,400	24,200	13,400	17,300	29,100	31,700	19,600	9,420	9,060	5,620	10,400
17	13,600	20,000	22,000	16,400	14,200	28,800	27,400	15,400	8,700	8,340	5,620	9,060
18	12,800	22,900	20,300	20,700	12,300	27,700	25,800	13,200	7,800	7,460	5,620	8,700
19	12,300	35,200	18,800	31,700	11,500	24,000	24,900	12,100	8,160	6,780	5,460	8,700
20	12,100	49,400	17,700	36,300	11,700	20,500	24,000	11,500	7,800	6,610	5,620	8,520
21	11,900	55,000	16,900	35,500	12,300	17,900	22,900	11,300	7,120	6,270	5,780	8,520
22	12,300	58,300	16,700	33,000	13,200	16,000	20,500	11,900	6,780	5,940	5,780	8,340
23	13,000	59,100	16,400	28,100	20,000	15,800	18,100	11,900	6,440	5,780	5,780	8,160
24	15,200	57,700	15,800	22,700	34,700	17,300	18,300	11,100	6,270	5,620	5,940	7,980
25	16,900	53,700	15,400	18,300	44,300	17,500	29,600	10,200	6,270	5,460	5,780	7,980
26	17,900	50,200	15,000	15,800	50,200	17,500	30,500	9,600	6,100	5,300	5,780	7,800
27	18,800	46,100	14,800	14,200	52,900	17,100	27,000	9,420	6,100	5,300	5,780	7,980
28	19,400	40,400	14,400	13,200	52,300	16,400	21,800	9,060	6,270	5,460	5,780	7,980
29	21,100	.....	14,000	12,600	49,100	15,400	17,100	8,700	6,100	5,460	6,100	7,800
30	25,600	.....	13,600	12,100	44,600	19,400	15,400	8,340	5,940	5,620	5,940	8,340
31	28,600	.....	13,200	.....	38,100	.....	15,800	7,980	.....	5,460	.....	9,240
1911												
1	10,700	11,100	17,500	21,100	25,400	11,100	10,600	9,980	5,300	4,660	5,620	11,300
2	15,000	11,300	16,200	19,400	27,200	9,980	9,240	9,240	5,300	4,350	5,460	11,500
3	26,800	11,300	15,400	17,500	30,800	9,240	8,700	9,980	5,140	4,200	5,300	11,300
4	52,900	10,900	15,400	15,400	32,000	8,880	9,060	14,400	4,980	4,050	5,140	10,700
5	68,600	10,900	15,800	14,600	29,300	8,700	8,160	22,000	5,140	4,200	4,980	9,980
6	75,800	11,100	16,000	18,300	24,700	8,340	7,290	23,600	5,460	4,350	4,980	9,420
7	77,800	11,100	16,000	36,300	20,000	7,980	6,610	24,000	6,610	4,200	5,140	8,880
8	73,600	12,100	15,400	47,500	17,100	8,340	7,120	20,500	8,520	4,050	5,460	8,520
9	65,300	14,400	14,800	51,800	15,400	9,420	8,160	16,400	9,790	3,750	6,950	8,160
10	55,300	17,300	14,400	55,600	14,400	9,240	8,340	14,200	9,240	4,050	8,340	7,630
11	45,100	22,900	13,400	62,300	13,600	8,700	7,460	11,900	8,340	4,200	17,900	7,290
12	34,400	30,300	13,200	69,100	13,000	8,340	8,340	10,200	7,290	4,500	22,900	7,120
13	25,800	36,000	13,400	73,600	12,600	8,160	10,700	8,880	6,440	4,660	22,900	6,950
14	21,100	42,200	13,000	73,900	12,100	7,630	11,300	9,790	6,440	4,500	21,800	7,120
15	18,600	44,100	12,600	71,600	11,700	7,120	13,000	10,600	5,940	4,200	19,600	6,950
16	17,300	41,700	12,300	67,200	11,100	6,780	14,600	11,500	5,620	4,350	16,400	7,290
17	16,200	37,600	11,500	61,800	10,700	6,440	15,000	11,900	5,300	9,060	14,000	7,630
18	15,400	32,000	11,100	53,700	10,400	6,440	17,100	10,700	5,620	8,700	12,800	7,980
19	14,400	27,200	10,900	42,000	10,200	6,780	20,300	10,600	4,820	7,460	12,400	8,520
20	14,000	20,700	10,900	35,200	9,980	6,610	23,800	11,900	4,980	6,780	12,300	9,600
21	13,400	25,600	11,500	32,400	9,980	7,120	23,800	12,400	5,300	5,940	11,900	13,200
22	13,200	28,100	12,400	32,000	10,400	8,700	23,100	11,300	5,300	11,100	11,700	22,000
23	12,800	27,900	12,400	30,800	11,500	9,980	20,000	10,600	5,460	16,400	11,700	33,700
24	12,400	25,400	12,400	30,300	15,000	9,790	18,300	9,980	4,820	15,200	11,500	45,400
25	12,400	23,600	12,300	28,600	21,800	10,600	18,300	8,880	5,140	12,100	11,300	54,200
26	12,300	22,700	13,400	26,100	22,900	10,400	16,000	7,980	4,660	9,240	10,200	55,600
27	12,100	20,700	13,400	23,100	20,900	10,400	14,000	7,460	4,820	7,630	9,420	54,500
28	11,500	19,000	15,200	22,000	17,900	9,790	14,600	6,780	4,820	6,780	8,520	55,300
29	11,300	.....	21,600	24,000	16,000	10,400	14,800	6,270	5,140	6,270	9,060	57,500
30	11,300	.....	22,200	26,800	14,400	10,200	13,200	5,940	4,980	6,270	10,600	57,500
31	11,100	.....	21,800	.....	12,800	.....	11,100	5,620	.....	6,100	.....	57,500

Daily discharge, in second-feet, of Alabama River at Selma, Ala.—Cont'd.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1912												
1	59,600	108,000	96,300	109,000	90,700	19,800	32,200	15,600	14,600	20,600	10,900	9,600
2	61,500	114,000	90,700	113,000	87,600	27,000	32,200	14,600	13,600	18,800	10,400	9,080
3	62,300	115,000	85,900	113,000	82,800	34,400	30,000	14,400	12,600	15,800	9,980	9,240
4	61,200	108,000	74,700	111,000	75,300	34,200	29,600	14,600	12,100	13,800	9,796	9,600
5	58,600	99,200	69,700	107,000	65,600	29,800	27,700	16,000	11,700	12,800	9,790	13,400
6	54,000	77,000	66,100	101,000	58,300	24,900	28,100	17,500	11,500	12,600	9,790	18,600
7	46,700	55,800	63,400	92,900	53,200	23,300	29,800	16,400	11,100	12,600	10,700	25,400
8	39,900	37,800	63,100	85,600	48,300	23,800	28,100	15,400	10,700	14,200	13,400	29,300
9	45,100	29,300	64,800	75,300	47,500	24,000	27,400	16,200	10,600	16,400	15,400	31,000
10	60,400	27,200	60,400	60,200	51,000	24,000	32,000	22,500	10,400	16,900	15,600	30,300
11	70,800	25,200	58,800	45,900	52,100	22,000	34,400	27,000	9,980	15,200	15,000	26,800
12	73,000	26,800	59,600	38,600	51,800	20,700	32,000	29,800	9,980	13,200	14,000	23,300
13	68,300	29,800	63,100	36,300	54,000	19,600	28,600	38,300	9,980	11,700	13,400	20,900
14	58,300	30,000	65,000	36,800	57,500	20,700	27,700	43,300	9,980	10,900	13,200	18,800
15	45,900	35,700	76,100	40,400	50,400	27,400	30,800	38,600	10,400	10,600	12,400	16,400
16	35,500	46,100	94,300	45,100	41,700	42,200	34,700	29,800	12,300	10,400	11,500	15,400
17	29,200	52,600	110,000	65,800	34,700	45,400	35,000	23,300	16,700	10,600	10,700	14,400
18	25,600	56,900	120,000	95,700	31,200	40,900	34,700	20,900	18,600	11,500	10,400	14,200
19	23,800	59,900	126,000	113,000	29,100	37,800	43,300	24,500	16,000	18,300	9,980	14,000
20	23,600	60,200	126,000	120,000	27,400	34,400	45,400	26,800	14,200	18,100	9,980	14,400
21	26,800	58,600	122,000	126,000	26,300	28,800	38,100	24,000	13,400	22,000	10,200	14,800
22	28,400	59,100	115,000	129,000	25,200	24,200	33,000	20,900	13,800	24,900	9,980	14,600
23	25,400	62,600	105,000	132,000	24,500	20,900	28,100	19,400	14,000	24,000	9,790	14,400
24	23,800	66,600	94,600	133,000	23,800	19,000	28,100	19,400	14,600	21,600	9,420	21,800
25	22,200	75,000	91,000	133,000	22,900	17,900	26,100	19,200	21,800	21,100	9,420	34,200
26	20,900	84,200	94,900	132,000	22,200	19,200	22,700	18,800	25,600	19,200	9,420	44,600
27	19,600	96,000	98,900	127,000	21,800	19,400	20,500	19,200	22,900	16,200	9,240	46,100
28	18,800	98,900	98,900	119,000	21,100	19,800	18,800	19,800	23,300	14,200	9,210	43,000
29	29,600	98,900	98,900	107,000	20,500	22,000	18,100	19,400	23,600	12,800	9,420	38,600
30	66,100	...	99,200	96,900	20,000	27,000	17,100	17,900	22,000	11,900	9,420	34,700
31	90,100	...	103,000	...	19,800	...	16,400	16,400	...	11,500	...	30,500

NOTE.—Daily discharge computed from a well-defined rating curve.

1918												
1	27,400	101,000	65,800	85,400	20,700	17,700	11,900	19,800	7,290	14,200	9,060	6,270
2	26,100	96,200	78,900	81,200	19,800	15,800	11,200	19,800	7,980	18,600	8,700	6,610
3	25,200	91,500	85,400	75,200	19,400	14,600	10,700	17,300	7,800	20,800	8,340	7,120
4	25,200	89,800	87,000	68,600	18,800	14,200	11,200	16,400	7,630	22,200	8,160	7,630
5	26,800	89,200	84,200	58,000	18,200	14,400	11,200	16,200	8,160	26,100	7,800	13,400
6	27,000	89,800	78,100	46,400	17,900	16,900	11,100	16,400	9,980	20,000	7,290	17,700
7	26,800	87,200	70,800	40,400	17,300	18,600	11,100	14,000	10,400	15,200	7,120	16,700
8	25,400	78,800	62,200	35,700	17,100	17,900	10,400	12,400	10,700	12,100	6,780	13,800
9	24,700	66,100	49,400	32,700	16,900	20,500	9,790	11,500	9,790	10,600	6,440	12,400
10	24,800	52,900	44,600	31,000	16,700	26,800	9,420	11,900	9,600	9,240	6,440	11,500
11	24,500	40,200	55,000	32,400	16,400	26,100	9,060	11,300	8,880	8,160	6,610	11,200
12	24,000	34,000	71,100	33,700	16,900	24,900	9,420	11,900	8,700	7,120	6,270	11,500
13	23,600	32,200	87,300	34,400	17,200	21,100	10,700	13,200	9,980	6,950	6,100	11,300
14	23,800	44,300	98,000	33,200	17,100	19,800	10,900	12,300	9,980	6,610	6,270	10,600
15	33,200	56,400	110,000	31,000	16,900	18,800	13,400	11,300	8,700	6,100	6,270	10,400
16	33,700	63,100	119,000	28,800	16,200	16,900	15,200	10,400	9,060	6,100	6,270	10,200
17	32,400	63,400	126,000	27,700	15,800	15,000	13,800	10,200	9,790	5,940	6,610	9,790
18	30,000	60,200	124,000	26,800	15,800	13,800	12,300	9,790	10,200	6,100	6,780	9,600
19	27,400	53,200	125,000	25,400	16,200	13,000	11,900	9,420	9,790	6,100	6,780	9,240
20	27,400	42,800	122,000	24,200	16,900	12,400	11,900	9,060	10,200	6,270	6,610	9,060
21	28,600	35,700	125,000	23,600	16,000	11,900	11,300	9,600	10,200	6,780	6,440	8,880
22	29,100	36,300	120,000	22,900	15,400	11,300	10,600	9,980	9,600	7,120	6,440	8,700
23	28,400	42,800	113,000	22,200	16,000	11,100	10,900	9,420	8,700	7,980	6,440	8,700
24	27,200	45,600	112,000	21,400	16,900	10,700	12,100	9,420	7,800	8,700	6,270	8,340
25	31,200	48,400	107,000	20,900	20,000	10,400	13,200	9,600	7,630	8,520	6,270	8,340
26	46,700	44,100	98,300	20,700	23,600	10,400	13,400	9,980	7,460	11,700	6,100	9,600
27	58,400	43,300	87,600	20,900	24,000	10,900	14,000	8,880	7,630	15,200	6,100	10,400
28	73,300	51,300	81,700	22,500	23,600	11,300	14,400	8,520	7,630	14,000	6,100	11,100
29	87,800	...	83,400	23,100	23,800	11,500	14,200	8,520	7,980	11,900	6,100	12,100
30	96,900	...	86,800	22,000	22,700	11,100	14,800	7,980	9,240	10,400	6,100	14,400
31	101,000	...	87,600	...	20,700	...	17,800	7,630	...	9,420	...	12,300

NOTE—Daily discharge determined from a rating curve well defined by measurements made previous to 1911. As the accuracy of this rating curve depends on the permanency of the discharge relation, estimates of daily discharge should be used with caution.

Estimated monthly discharge of Alabama River at Selma, Ala.

[Drainage area, 13,500 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Second-feet per square mile.	Depth in inches.
1900.					
January	50,110	9,676	26,495	1.96	2.26
February	128,540	10,920	63,763	4.72	4.91
March	89,478	37,874	58,272	4.32	4.98
April	109,960	21,648	60,909	4.51	5.03
May	41,884	13,668	21,090	1.56	1.80
June	94,000	12,220	35,288	2.61	2.91
July	93,468	12,660	33,964	2.52	2.90
August	38,140	9,124	14,156	1.05	1.21
September	52,504	7,189	17,366	1.29	1.44
October	35,480	7,097	14,492	1.07	1.23
November	46,120	7,596	18,506	1.37	1.53
December	48,780	8,750	28,989	2.15	2.48
The year	128,540	7,097	33,772	2.34	32.68
1901.					
January	107,300	22,446	61,213	4.53	5.22
February	95,862	30,692	55,037	4.08	4.25
March	92,670	21,382	39,017	2.89	3.33
April	104,640	32,288	73,048	5.41	6.04
May	59,420	10,120	26,966	2.00	2.31
June	53,568	7,818	26,030	1.93	2.15
July	21,318	7,596	13,536	1.00	1.15
August	66,868	9,532	30,853	2.29	2.64
September	46,120	10,428	19,394	1.44	1.61
October	21,914	7,931	11,022	.82	.95
November	8,750	7,931	8,286	.61	.68
December	94,000	8,511	26,638	1.97	2.27
The year	107,300	7,596	32,585	2.47	32.60
1902.					
January	124,856	18,190	52,855	3.42	3.94
February	101,714	31,756	54,898	3.56	3.71
March	130,974	51,972	90,404	5.87	6.77
April	135,762	23,510	62,017	4.03	4.49
May	26,170	11,448	18,859	1.22	1.41
June	11,820	8,393	9,682	.63	.70
July	9,392	7,009	7,897	.51	.59
August	8,160	6,470	7,176	.47	.54
September	11,448	6,520	7,871	.51	.57
October	16,860	6,635	10,184	.66	.76
November	21,116	6,845	9,557	.62	.69
December	68,996	11,448	33,122	2.15	2.48
The year	135,762	6,470	30,360	1.97	26.65

Estimated monthly discharge of Alabama River at Selma, Ala.—Continued.

[Drainage area, 15,400 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum	Minimum.	Mean.	Sec.-feet per square mile.	Depth in inches.
1903					
January	33,100	15,450	23,039	1.50	1.73
February	136,350	18,920	90,958	5.91	6.15
March	114,900	41,200	78,189	5.07	5.85
April	83,560	25,600	53,852	3.50	3.90
May	83,000	18,040	33,338	2.16	2.49
June	43,950	16,950	27,142	1.76	1.96
July	26,060	11,970	18,122	1.18	1.36
August	20,900	8,480	14,205	.92	1.06
September	10,050	6,580	7,781	.51	.57
October	7,282	6,262	6,835	.44	.51
November	7,920	6,364	7,310	.47	.52
December	11,170	6,922	7,801	.51	.59
The year	136,350	6,262	30,710	1.99	26.69
1904					
January	33,200	7,630	14,830	0.963	1.11
February	56,320	12,450	27,160	1.76	1.90
March	29,320	15,610	21,890	1.42	1.64
April	20,480	9,420	14,130	.918	1.02
May	9,790	5,300	7,726	.502	.579
June	11,500	4,350	7,259	.471	.526
July	13,210	5,620	8,088	.525	.605
August	60,180	8,700	21,510	1.40	1.61
September	11,310	3,900	5,865	.381	.425
October	4,050	3,300	3,421	.222	.256
November	5,140	3,300	3,981	.258	.288
December	18,970	3,600	8,467	.550	.634
The year	60,180	3,300	12,080	.781	10.59
1905					
January	87,950	10,550	31,290	2.03	2.34
February	112,700	14,000	60,380	3.92	4.08
March	60,450	20,040	30,840	2.00	2.31
April	22,900	15,000	18,290	1.19	1.33
May	44,810	15,400	25,000	1.62	1.87
June	32,450	8,520	12,100	.786	.877
July	23,120	8,880	13,780	.895	1.03
August	26,300	8,880	14,660	.952	1.10
September	10,360	3,900	6,651	.432	.482
October	11,500	3,900	7,728	.502	.579
November	8,160	6,100	6,952	.451	.503
December	67,050	6,100	39,670	2.58	2.97
The year	112,700	3,900	22,280	1.45	19.47
1906					
January	76,400	25,600	45,300	2.94	3.39
February	34,400	16,900	22,500	1.46	1.52
March	138,000	19,600	71,400	4.64	5.35
April	117,000	17,100	40,900	2.66	2.97
May	46,400	12,600	20,800	1.35	1.56
June	39,100	11,500	17,700	1.15	1.28
July	66,900	12,100	33,600	2.18	2.51
August	38,600	15,400	24,600	1.60	1.84
September	59,100	14,000	24,000	1.56	1.74
October	91,200	16,900	46,000	2.99	3.45
November	60,700	12,300	27,600	1.79	2.00
December	34,000	15,600	23,200	1.51	1.74
The year	138,000	11,500	33,100	2.15	29.35

Estimated monthly discharge of Alabama River at Selma, Ala.—Continued.

[Drainage area, 15,400 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-ft. per sq. mile.	Depth in inches.
1907					
January	74,400	18,100	33,100	2.15	2.48
February	90,100	19,800	42,700	2.77	2.88
March	100,000	17,700	44,600	2.90	3.34
April	62,300	16,700	29,300	1.90	2.12
May	89,000	28,100	46,000	2.99	3.45
June	38,900	13,600	22,200	1.44	1.61
July	24,900	11,500	16,100	1.05	1.21
August	20,000	9,060	12,600	.818	.94
September	23,100	6,270	10,500	.682	.76
October	14,400	6,100	8,480	.551	.64
November	64,200	6,100	19,000	1.23	1.37
December	65,300	14,000	33,200	2.16	2.49
The year	100,000	6,100	26,500	1.72	23.29
1908					
January	84,800	19,400	45,900	2.98	3.44
February	116,000	28,400	67,700	4.40	4.74
March	106,000	20,300	42,300	2.75	3.17
April	94,600	19,800	39,600	2.57	2.87
May	90,400	18,300	33,300	2.16	2.49
June	24,500	11,700	15,600	1.01	1.13
July	18,100	9,600	11,800	.766	.88
August	15,000	7,120	10,600	.688	.79
September	15,600	5,300	8,050	.523	.58
October	9,420	4,660	5,580	.362	.42
November	12,800	5,300	6,940	.451	.50
December	43,000	5,780	19,800	1.29	1.49
The year	116,000	4,660	25,600	1.66	22.50
1909					
January	35,200	11,700	20,100	1.31	1.51
February	104,000	10,600	56,000	3.64	3.79
March	146,000	30,500	100,000	6.49	7.48
April	90,100	22,900	39,500	2.56	2.86
May	91,500	25,400	48,900	3.18	3.67
June	91,200	28,600	52,000	3.38	3.77
July	34,200	15,400	23,000	1.49	1.72
August	58,100	10,400	24,300	1.58	1.82
September	17,100	9,980	12,000	.779	.87
October	17,100	6,950	9,040	.587	.68
November	10,700	6,950	7,860	.510	.57
December	23,600	7,800	15,000	.974	1.12
The year	146,000	6,950	34,000	2.21	29.86
1910					
January	28,600	10,700	16,600	1.08	1.24
February	59,100	14,000	31,000	2.01	2.09
March	60,200	13,200	27,600	1.79	2.06
April	36,300	10,900	16,800	1.09	1.22
May	52,900	9,790	21,300	1.38	1.59
June	33,700	13,200	21,300	1.38	1.54
July	83,400	15,400	40,600	2.64	3.04
August	30,000	7,980	14,900	.968	1.12
September	21,100	5,940	9,490	.616	.69
October	11,700	5,300	7,300	.474	.55
November	6,100	5,300	5,750	.373	.42
December	21,600	6,270	10,300	.669	.77
The year	83,400	5,300	18,500	1.20	16.33

Estimated monthly discharge of Alabama River at Selma, Ala.—Continued.

[Drainage area, 15,400 square miles.]

Month.	Discharge in second-feet.				Run-off (depth in inches on drainage area)
	Maximum.	Minimum.	Mean.	Per square mile.	
1911					
January	77,800	10,700	28,300	1.84	2.12
February	44,100	10,900	23,200	1.51	1.57
March	22,200	10,900	14,400	.935	1.08
April	73,900	14,600	39,500	2.56	2.86
May	32,000	9,980	16,900	1.10	1.27
June	11,100	6,440	8,720	.566	.63
July	23,800	6,610	13,300	.864	1.00
August	24,000	5,620	11,800	.766	.88
September	9,790	4,660	5,890	.382	.43
October	16,400	3,750	6,580	.426	.49
November	22,900	4,980	11,200	.727	.81
December	57,500	6,950	21,900	1.42	1.64
The year	77,800	3,750	16,800	1.09	14.78
1912					
January	90,100	18,800	44,400	2.88	3.32
February	115,000	25,200	65,300	4.24	4.57
March	126,000	58,800	88,900	5.77	6.65
April	133,000	36,300	94,700	6.15	6.86
May	90,700	19,800	43,200	2.81	3.24
June	45,400	17,900	26,500	1.72	1.92
July	45,400	16,400	29,400	1.91	2.20
August	43,300	14,400	21,900	1.42	1.64
September	25,600	9,980	14,700	.955	1.07
October	24,900	10,400	15,600	1.01	1.16
November	15,600	9,240	11,100	.721	.80
December	46,100	9,060	22,600	1.47	1.70
The year	133,000	9,060	39,700	2.58	35.13
1913					
January	101,000	24,000	37,300	2.42	2.79
February	101,000	32,200	60,000	3.90	4.06
March	135,000	44,600	92,900	6.03	6.95
April	85,400	20,700	35,700	2.32	2.59
May	24,000	15,400	18,400	1.19	1.37
June	28,800	10,400	15,700	1.02	1.14
July	17,500	9,060	12,000	.779	.90
August	19,800	7,630	11,700	.760	.88
September	10,700	7,290	8,950	.581	.65
October	32,200	5,940	11,800	.766	.88
November	9,060	6,100	6,770	.440	.49
December	17,700	6,270	10,600	.688	.79
The year	135,000	5,940	26,700	1.73	23.49

CHOCCOLOCCO CREEK NEAR JENIFER, ALA.

Location.—At the bridge of the Louisville & Nashville Railroad, one and one-quarter miles north of Jenifer and three-fourths miles above the mouth of Salt Creek.

Records available.—August 20, 1903 to February 3, 1908.

Drainage area.—272 square miles.

Gage.—Vertifical timber attached to tree on left bank 20 feet above the bridge. The datum has not been changed.

Channel.—Good for measurements. Banks do not overflow.

Discharge measurements.—Made from the railroad bridge.

Artificial control.—Extent of artificial control is not known. Mills above probably have some effect.

Accuracy.—Conditions are favorable for accurate work

Discharge measurements of Choccolocco Creek near Jenifer, Ala.

Date.	Gage height. Feet.	Discharge. Sec.-feet.	Date.	Gage height. Feet.	Discharge. Sec.-feet.
1903			1904		
July 23	2.25	186	October 12	1.80	99
July 23	2.25	180	November 26	1.75	93
August 20	2.26	183	November 26	1.86	102
August 25	2.12	146	1905		
October 2	1.82	90	January 31	2.80	387
November 14	2.08	130	January 31	2.78	399
1904			May 16	3.72	785
January 20	2.09	139	May 16	3.74	783
February 12	2.82	391	September 22	1.76	88
February 12	2.85	383	December 18	2.83	409
February 20	2.72	382	1907		
March 10	2.40	236	March 16	5.85	2,330
May 27	1.80	83	March 16	5.85	2,290
July 20	1.99	120	April 18	2.84	412
August 24	1.94	123	June 20	2.40	225
August 30	1.95	124	June 20	2.41	238
Sepetmber 22	1.71	92	August 29	2.62	336
October 12	1.83	103	October 29	2.08	147

Daily gage height of Choccolocco Creek at Jenifer, Ala.

Day.	Aug.	Sept.	Oct.	Nov.	Dec.	Day	Aug.	Sept.	Oct.	Nov.	Dec.
1903.						1903.					
1	.....	2.0	1.8	1.8	1.9	17	.....	2.1	1.8	1.9	1.9
2	.....	2.0	1.8	1.8	1.8	18	.....	2.1	1.9	1.9	1.9
3	.....	2.0	1.8	1.8	1.8	19	.....	2.0	1.9	1.9	1.9
4	.....	2.0	1.8	1.8	1.8	20	2.2	2.0	1.9	1.9	1.9
5	.....	2.0	1.8	1.9	1.9	21	2.2	1.9	1.9	1.9	1.9
6	.....	2.0	1.8	2.1	1.9	22	2.1	1.9	1.9	1.9	1.9
7	.....	2.0	1.8	2.0	1.9	23	2.1	1.9	1.8	1.9	2.1
8	.....	2.0	2.6	1.9	1.9	24	2.1	1.9	1.8	1.9	2.0
9	.....	1.9	2.1	1.9	1.9	25	2.1	1.9	1.8	1.9	1.9
10	.....	1.9	2.0	1.9	1.9	26	2.1	1.9	1.8	1.9	2.0
11	.....	1.9	2.0	1.8	1.9	27	2.1	1.9	1.8	1.9	2.0
12	.....	1.9	1.9	2.0	1.9	28	2.0	1.9	1.8	1.9	1.9
13	.....	1.9	1.9	2.0	1.9	29	2.1	1.8	1.8	1.9	1.9
14	.....	1.9	1.8	2.0	1.9	30	2.0	1.8	1.8	1.9	1.9
15	.....	1.9	1.8	2.0	1.9	31	2.0	.....	1.8	.....	1.9
16	.....	2.0	1.8	1.9	1.9						

Daily gage height, in feet, of Choccolocco Creek, near Jenifer, Ala.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1	1.90	2.10	2.80	2.10	2.10	2.20	2.10	1.90	1.85	1.65	1.40	1.50
2	1.90	2.10	2.80	2.10	2.00	2.20	2.00	2.00	1.80	1.70	1.40	1.60
3	1.90	2.10	2.80	2.15	2.00	2.10	2.20	2.00	1.80	1.70	1.60	1.70
4	2.00	2.10	2.20	2.10	2.00	1.90	1.90	2.00	1.80	1.60	1.70	1.70
5	1.90	2.10	2.20	2.10	2.00	1.85	1.80	2.80	2.10	1.60	1.70	1.80
6	1.90	2.10	2.20	2.15	2.00	1.85	1.80	2.20	2.00	1.60	1.80	2.00
7	1.90	2.80	2.60	2.10	2.00	1.80	1.80	3.50	1.90	1.60	1.70	2.20
8	1.90	3.80	2.60	2.60	2.00	1.80	1.80	3.60	1.80	1.50	1.70	1.90
9	1.90	3.40	2.50	2.80	2.15	1.90	1.90	3.40	1.75	1.60	1.65	1.85
10	1.90	2.80	2.40	2.50	2.15	1.80	2.00	2.70	1.75	1.50	1.60	1.80
11	1.90	2.90	2.80	2.40	2.00	1.80	2.10	2.70	1.80	1.50	1.50	1.80
12	2.00	2.80	2.80	2.30	1.90	1.80	1.90	4.00	1.80	1.50	1.40	1.80
13	2.00	2.60	2.80	2.20	1.90	1.80	1.80	3.00	1.80	1.50	1.70	1.80
14	2.00	2.50	3.00	2.20	1.90	1.80	1.80	2.50	1.70	1.50	1.70	1.70
15	1.90	2.40	3.00	2.20	2.00	1.75	1.80	2.80	1.70	1.50	1.60	1.70
16	1.90	2.80	2.85	2.10	1.90	1.75	1.80	2.40	1.70	1.50	1.60	1.70
17	2.20	2.30	2.60	2.10	1.80	1.75	1.80	2.20	1.65	1.60	1.60	1.70
18	2.30	2.20	2.50	2.10	1.80	1.70	1.80	2.20	1.70	1.50	1.60	1.90
19	2.20	2.20	2.40	2.10	1.80	1.70	1.70	2.00	1.70	1.50	1.60	1.75
20	2.00	2.60	2.35	2.10	1.80	1.70	2.00	2.00	1.65	1.50	1.60	1.70
21	1.90	2.80	2.80	2.10	1.80	1.75	1.80	1.95	1.70	1.50	1.70	1.60
22	2.40	2.80	2.30	2.10	1.80	1.80	1.75	1.95	1.65	1.50	1.70	1.60
23	3.40	3.80	2.30	2.00	1.80	1.75	1.80	1.95	2.10	1.50	1.80	1.60
24	2.80	3.20	2.25	2.00	1.75	1.80	1.75	1.90	2.20	1.40	2.00	1.60
25	2.40	2.80	2.20	2.00	1.80	2.00	1.70	1.90	2.00	1.40	1.80	1.70
26	2.20	2.60	2.20	2.05	1.80	1.90	1.65	1.90	1.80	1.40	1.75	1.80
27	2.10	2.50	2.20	2.20	1.75	1.80	1.70	2.75	1.80	1.40	1.70	1.80
28	2.10	2.50	2.25	2.25	1.80	1.80	1.70	2.10	1.70	1.40	1.70	2.70
29	2.10	2.40	2.20	2.15	1.80	2.50	1.70	2.00	1.70	1.40	1.70	2.60
30	2.10	.....	2.10	2.00	1.80	2.60	2.25	1.95	1.65	1.50	1.60	2.10
31	2.10	.....	2.15	.....	2.00	.....	1.90	1.95	.....	1.50	.....	2.00
1905												
1	2.0	2.6	2.7	2.5	2.2	2.5	2.45	2.0	1.9	1.9	1.8	1.9
2	1.95	2.5	2.65	2.4	2.2	2.4	2.8	2.0	1.9	1.95	1.8	1.85
3	1.95	2.4	2.6	2.4	2.3	2.4	2.6	2.0	2.0	1.9	1.8	4.7
4	1.9	2.4	2.6	2.4	2.2	2.35	2.3	1.9	1.9	1.85	1.6	5.0
5	1.9	2.4	2.5	2.4	2.2	2.3	2.2	1.9	1.9	1.8	1.8	4.0
6	1.9	3.5	2.5	2.5	2.2	2.2	2.1	1.9	1.85	1.75	1.8	2.7
7	2.0	3.6	2.5	2.55	2.2	2.2	2.3	1.9	1.9	1.75	1.7	2.5
8	2.1	4.2	2.4	2.5	2.25	2.2	2.3	1.9	1.9	1.8	1.8	2.4
9	2.0	6.8	2.6	2.4	2.2	2.2	2.25	2.1	1.9	1.75	1.7	3.6
10	2.0	7.5	3.4	2.4	2.2	2.15	2.2	2.2	1.9	1.8	1.75	4.6
11	2.0	5.7	3.1	2.4	2.2	2.1	2.9	2.3	1.85	2.0	1.8	4.0
12	5.7	4.2	2.8	2.6	2.1	2.1	3.5	2.1	2.4	2.1	1.9	3.0
13	7.5	5.1	2.75	2.55	2.1	2.1	3.2	3.3	2.0	2.0	1.9	2.7
14	7.1	5.0	2.6	2.45	2.1	2.1	2.3	2.6	1.95	1.8	1.85	2.6
15	3.9	4.3	2.6	2.4	2.1	2.1	2.3	2.5	1.9	1.8	1.8	2.6
16	3.1	3.6	2.5	2.4	3.6	2.5	2.3	2.6	1.85	1.8	1.75	3.1
17	2.8	3.4	2.45	2.4	2.7	2.3	2.2	2.9	1.85	1.9	1.75	3.0
18	2.7	3.2	2.4	2.35	3.0	2.2	2.1	2.4	1.8	1.9	1.75	2.8
19	2.6	3.2	2.4	2.3	2.6	2.2	2.1	2.3	1.8	1.9	1.8	2.6
20	2.6	3.3	2.8	2.3	2.45	2.65	2.3	2.2	1.8	1.85	1.8	2.8
21	2.5	4.3	5.1	2.3	2.6	2.6	2.1	2.2	1.8	1.8	1.8	4.6
22	2.4	4.6	5.4	2.3	2.55	2.3	2.1	2.1	1.8	1.8	1.8	4.8
23	2.4	3.8	4.0	2.3	3.0	2.3	2.1	2.0	1.8	1.8	1.8	5.0
24	2.3	3.5	2.35	2.3	3.1	2.35	2.1	2.1	1.8	1.8	1.8	4.1
25	2.5	3.2	2.1	2.2	3.5	2.7	2.0	2.0	1.75	1.8	1.8	3.8
26	2.2	3.1	2.9	2.2	3.6	2.35	2.0	2.0	1.8	1.8	1.85	3.8
27	2.2	2.9	2.8	2.25	3.5	2.35	2.0	2.0	1.7	1.7	1.9	3.1
28	2.1	2.8	2.6	2.2	3.3	2.3	2.0	2.0	1.65	1.8	1.9	2.9
29	2.1	.....	2.6	2.2	3.0	3.5	2.0	1.9	1.7	1.8	1.9	3.2
30	2.5	.....	2.6	2.2	2.7	2.5	2.2	1.9	1.8	1.8	1.9	3.2
31	2.7	.....	2.5	.....	2.6	.....	2.1	1.9	.....	1.8	.....	3.0

Daily gage height, in feet, of Choccolocco Creek near Jenifer, Ala.—Cont'd.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1906												
1	2.9	2.7	2.3	4.4	2.5	2.3	2.15	2.8	2.7	6.1	2.6	2.7
2	2.75	2.65	2.3	3.9	2.45	2.3	2.2	2.7	3.0	7.1	2.7	2.7
3	2.9	2.6	2.6	3.5	2.4	2.3	2.3	2.9	2.7	6.9	2.5	2.65
4	5.4	2.6	3.7	3.4	2.5	2.3	2.2	2.8	2.6	5.1	2.8	2.6
5	5.6	2.5	3.3	3.3	2.85	2.25	2.2	3.6	2.5	4.0	2.5	2.6
6	4.4	2.5	3.3	3.2	3.0	2.2	2.1	3.1	4.0	3.8	2.5	2.6
7	3.45	2.5	2.85	3.1	3.5	2.3	2.1	3.0	6.4	3.6	2.5	2.6
8	3.3	2.5	2.7	3.0	3.5	2.2	4.4	2.9	5.1	3.3	2.5	2.6
9	3.2	2.5	3.1	2.9	2.9	2.2	3.9	2.8	3.5	3.1	2.5	2.5
10	2.9	2.5	2.9	3.7	2.7	2.2	2.7	2.7	4.4	3.0	2.5	2.5
11	3.0	2.45	2.8	3.4	2.6	2.2	2.5	2.7	4.0	2.9	2.5	4.5
12	3.0	2.4	2.8	3.1	2.5	2.1	2.4	4.1	3.2	2.8	2.5	4.5
13	3.0	2.4	2.6	3.0	2.5	2.1	2.3	3.6	3.4	2.7	2.5	3.2
14	2.9	2.4	2.5	3.0	2.45	2.2	2.5	4.6	2.9	2.7	2.5	3.0
15	2.8	2.4	4.1	3.2	2.45	3.7	6.7	6.5	2.8	2.6	2.8	2.9
16	2.8	2.35	5.2	3.0	2.4	3.8	5.0	4.5	2.7	2.7	2.8	2.8
17	2.9	2.3	5.6	2.9	2.4	2.8	3.2	3.6	2.6	2.6	2.5	3.1
18	2.8	2.3	3.6	2.8	2.4	2.5	6.9	3.0	2.7	3.9	2.5	3.1
19	2.9	2.3	11.5	2.75	2.4	2.45	8.4	2.9	2.6	4.9	4.5	3.5
20	2.9	2.3	14.2	2.7	2.4	2.5	6.5	2.9	2.6	4.5	5.2	3.4
21	2.9	2.3	7.5	2.7	2.4	2.4	4.5	3.0	2.8	3.5	5.5	3.3
22	3.2	2.4	5.2	2.7	2.4	2.3	3.5	2.7	2.8	3.0	4.8	3.2
23	4.6	2.4	4.3	2.65	2.35	2.3	4.0	2.6	2.7	3.0	3.3	3.1
24	4.5	2.4	3.8	2.65	2.3	2.3	4.4	2.6	2.8	2.9	3.0	3.0
25	3.6	2.4	3.6	2.6	2.25	2.2	3.5	2.6	2.9	2.9	2.9	2.9
26	3.25	2.4	3.3	2.55	2.3	2.2	3.1	2.85	2.7	2.8	2.8	2.8
27	3.1	2.4	3.3	2.5	2.3	2.3	2.8	2.6	2.6	2.8	2.8	2.8
28	3.0	2.4	5.6	2.5	2.4	2.2	2.8	3.2	2.6	2.7	2.7	2.9
29	2.9	.....	5.8	2.5	2.3	2.2	2.8	2.6	2.6	2.7	2.7	3.4
30	2.8	.....	5.3	2.5	2.3	2.2	3.1	2.7	4.1	2.6	2.7	3.6
31	2.75	.....	4.9	.....	2.3	.....	3.1	3.0	.....	2.7	.....	6.0
1907.												
1	6.7	3.6	5.2	3.1	3.4	3.5	2.8	2.8	2.0	2.1	2.0	2.7
2	5.9	3.7	7.3	3.0	3.2	3.2	2.6	2.8	2.0	2.1	2.0	2.5
3	4.0	7.5	6.7	2.8	3.1	3.0	2.7	2.2	2.0	2.1	2.1	2.4
4	3.7	5.5	5.6	2.8	3.6	2.9	2.7	2.2	2.1	2.0	2.1	2.25
5	3.5	6.6	5.0	2.8	3.4	2.9	2.6	2.2	2.1	2.1	2.0	2.2
6	3.3	5.8	4.7	3.1	3.5	2.8	2.6	2.2	2.2	2.1	2.0	2.25
7	3.2	4.7	4.6	3.0	3.7	2.8	2.5	2.2	2.1	2.1	2.1	2.2
8	3.1	4.1	4.5	3.1	3.9	2.7	2.4	2.1	2.0	2.0	2.0	2.2
9	3.0	3.8	4.4	3.0	4.0	2.7	2.4	2.1	2.0	2.0	2.0	2.1
10	3.0	3.6	3.2	2.9	3.9	2.7	2.4	2.1	2.1	2.0	2.0	2.0
11	3.0	3.4	3.2	2.8	3.8	2.7	2.4	2.2	2.1	2.0	2.0	2.9
12	3.0	3.3	3.2	2.75	3.7	2.7	2.4	2.3	2.1	2.1	2.2	2.9
13	3.0	3.3	3.2	2.75	3.4	2.7	2.5	2.2	2.25	2.0	2.1	2.8
14	2.9	3.2	3.1	2.7	3.8	2.7	2.5	2.2	2.0	1.95	2.0	2.7
15	2.85	3.1	3.5	2.7	5.9	3.1	2.65	2.2	1.9	2.0	2.0	2.2
16	2.8	3.0	3.3	2.7	6.3	2.75	2.5	2.3	2.1	2.0	2.0	2.1
17	2.8	3.0	3.1	3.2	6.6	2.7	2.4	2.2	2.0	1.95	2.0	2.7
18	2.8	3.0	3.0	3.2	4.2	2.7	2.3	2.2	2.0	1.9	2.1	2.0
19	2.8	3.0	3.0	3.6	3.7	2.6	2.3	2.3	2.0	1.9	2.1	2.6
20	3.0	3.0	2.9	3.9	3.2	2.5	2.3	2.1	2.0	1.9	2.2	2.6
21	3.1	3.0	2.9	3.3	3.2	2.5	2.3	2.1	1.9	1.9	2.5	2.5
22	3.1	2.9	2.9	3.2	3.2	2.5	2.3	2.1	2.1	2.0	2.3	2.4
23	2.8	2.9	2.85	4.1	3.2	2.7	2.3	2.2	2.9	2.0	2.2	2.6
24	2.7	2.8	2.8	3.25	3.1	2.9	2.2	2.2	2.7	1.9	2.7	2.7
25	2.7	3.3	2.8	3.2	3.2	2.7	2.2	2.2	2.2	1.9	2.3	2.7
26	2.8	3.2	2.8	3.3	3.2	3.1	2.2	2.1	2.1	2.0	2.7	2.6
27	2.9	3.2	2.8	3.2	3.6	2.7	2.4	2.1	2.0	2.0	2.5	2.5
28	2.8	3.8	2.8	3.2	3.1	3.0	2.7	2.0	2.1	1.9	2.4	2.5
29	2.7	.....	2.8	3.8	3.0	3.2	2.4	2.0	2.1	2.0	2.1	2.9
30	2.7	.....	2.8	3.4	3.0	3.2	2.8	2.0	2.2	1.9	2.8	2.7
31	3.0	.....	2.8	.....	3.3	.....	2.4	2.0	.....	2.0	.....	4.5

Day.	Jan.	Feb.	Day.	Jan.	Feb.	Day.	Jan.	Feb.	Day.	Jan.	Feb.
1908.			1908.			1908.			1908.		
1	5.2	4.6	9	3.8	.....	17	3.0	.....	25	2.6	.....
2	3.8	4.9	10	3.0	.....	18	2.9	.....	26	2.65	.....
3	3.25	3.8	11	3.0	.....	19	2.8	.....	27	2.5	.....
4	3.0	.....	12	3.6	.....	20	2.75	.....	28	2.5	.....
5	2.7	.....	13	3.5	.....	21	2.7	.....	29	2.5	.....
6	2.6	.....	14	3.25	.....	22	2.7	.....	30	2.5	.....
7	2.65	.....	15	3.0	.....	23	2.7	.....	31	2.5	.....
8	3.5	.....	16	3.0	.....	24	2.6	.....			

Rating table for Choccolocco Creek at Jenifer, Ala., for 1903.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
1.80	88	2.10	138	2.40	249	2.70	400
1.90	101	2.20	164	2.50	297	3.00	580
2.00	117	2.30	202	2.60	345	4.00	1,180

Rating table for Choccolocco Creek near Jenifer, Ala., for 1904.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
1.40	62	1.90	113	2.40	230	2.80	383
1.50	68	2.00	130	2.50	268	2.90	430
1.60	76	2.10	150	2.60	300	3.00	480
1.70	86	2.20	173	2.70	340	3.10	530
1.80	98	2.30	200				

The above table is based upon twenty discharge measurements made during 1903-4. It is well defined between gage heights 1.70 feet and 2.80 feet. Estimates above 3.1 feet are based upon a tangent with a difference of 55 per tenth.

Station rating table for Choccolocco Creek near Jenifer, Ala., for 1905.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
1.60	68	1.90	108	2.20	170	2.50	272
1.70	80	2.00	124	2.30	202	2.60	310
1.80	94	2.10	144	2.40	236	2.70	350

The above table is based on discharge measurements made during 1903-1905. It is well defined between gage heights 1.7 feet and 3.8 feet. Above gage height 2.7 feet, the rating curve is a tangent, the difference being 42 per tenth.

Rating table for Choccolocco Creek near Jenifer, Ala., for 1906.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
2.00	125	3.20	560	4.30	1,135	5.80	2,260
2.10	145	3.30	605	4.40	1,195	6.00	2,440
2.20	170	3.40	650	4.50	1,260	6.20	2,620
2.30	200	3.50	700	4.60	1,325	6.40	2,800
2.40	235	3.60	750	4.70	1,395	6.60	3,000
2.50	270	3.70	800	4.80	1,465	6.80	3,200
2.60	305	3.80	850	4.90	1,535	7.00	3,400
2.70	345	3.90	905	5.00	1,610	8.00	4,500
2.80	385	4.00	960	5.20	1,760	9.00	5,600
2.90	425	4.10	1,015	5.40	1,920	10.00	6,800
3.00	470	4.20	1,075	5.60	2,080	11.00	8,000
3.10	515						

Note.—The above table is based on discharge measurements made during 1903-1906, and is well defined below gage height 6 feet. Above gage height 9 feet, the rating curve is a tangent, the difference being 120 per tenth.

Rating table for Choccolocco Creek at Jenifer, Ala., for 1907 and 1908.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
1.90	109	3.00	470	4.10	1,015	5.40	1,920
2.00	130	3.10	515	4.20	1,075	5.60	2,080
2.10	153	3.20	560	4.30	1,135	5.80	2,260
2.20	178	3.30	605	4.40	1,195	6.00	2,440
2.30	205	3.40	650	4.50	1,260	6.20	2,620
2.40	235	3.50	700	4.60	1,325	6.40	2,800
2.50	270	3.60	750	4.70	1,395	6.60	3,000
2.60	305	3.70	800	4.80	1,465	6.80	3,200
2.70	345	3.80	850	4.90	1,535	7.00	3,400
2.80	385	3.90	905	5.00	1,610	8.00	4,500
2.90	425	4.00	960	5.20	1,760	9.00	5,600

Note.—The above table is not applicable for obstructed-channel conditions. It is based on 32 discharge measurements made during 1903-1908, and is well defined below gage height 6 feet.

Estimated monthly discharge of Choccolocco Creek near Jenifer, Ala.

[Drainage area, 272 square miles.]

Month.	Discharge in second-feet.		
	Maximum.	Minimum.	Mean.
1903			
August 20 to 31	164	117	137.
September	138	88	108
October	345	88	103
November	138	88	103
December	138	88	102
1904			
January	695	118	165
February	695	150	307
March	480	150	221
April	383	130	173
May	161	92	116
June	300	86	118
July	186	81	109
August	1,025	113	270
September	178	81	101
October	86	62	70.0
November	130	62	82.7
December	340	68	112
The year	1,025	62	155

Monthly discharge of Choccolocco Creek near Jenifer, Ala.—Continued.

[Drainage area, 272 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-feet. per square mile.	Depth in inches.
1905					
January	2,366	108	410	1.50	1.73
February	2,366	236	824	3.03	3.16
March	1,484	144	411	1.51	1.74
April	310	170	226	.831	.927
May	770	144	338	1.24	1.43
June	636	144	225	.827	.923
July	636	124	216	.794	.915
August	602	108	175	.643	.741
September	236	74	105	.386	.431
October	144	80	99.8	.367	.423
November	108	68	94.5	.347	.387
December	1,316	101	625	2.30	2.65
The year	2,366	68	312	1.15	15.46
1906					
January	2,080	365	645	2.37	2.73
February	345	200	248	.912	.95
March	11,800	200	1,590	5.85	6.74
April	1,200	270	483	1.78	1.99
May	700	185	287	1.06	1.22
June	350	145	240	.882	.98
July	4,940	145	920	3.38	3.90
August	2,900	305	588	2.16	2.49
September	2,800	270	593	2.18	2.43
October	3,510	305	836	3.07	3.54
November	2,000	270	497	1.83	2.04
December	2,440	270	562	2.07	2.39
The year	11,800	145	624	2.30	31.40
1907					
January	3,100	345	621	2.28	2.63
February	5,270	385	1,250	4.60	4.79
March	3,730	385	895	3.29	3.79
April	1,020	345	534	1.96	2.19
May	3,000	470	876	3.22	3.71
June	700	270	400	1.47	1.64
July	385	178	258	.949	1.09
August	205	130	169	.621	.72
September	425	109	161	.592	.66
October	153	109	129	.474	.55
November	300	130	228	.838	.94
December	1,260	178	385	1.42	1.64
The year	5,270	109	492	1.81	24.35
1908					
January	1,760	270	524	1.93	2.22

TALLADEGA CREEK AT NOTTINGHAM, ALA.

Location.—At the Southern Railway bridge, one-fourth mile from Nottingham, Ala.

Records available.—August 16, 1900, to December 31, 1904.

Drainage area.—156 square miles.

Gage.—Vertical rod. Datum was not changed while in use.

Channel.—Good. Banks do not overflow.

Discharge measurements.—Made from the railroad bridge.

Artificial control.—Probably some effect from mills above.

Accuracy.—Records are considered fairly accurate.

Discharge measurements of Talladega Creek at Nottingham.

Date.	Gage height. Feet.	Discharge. Sec.-feet.	Date.	Gage height. Feet.	Discharge. Sec.-feet.
1900			August 20	1.30	116
August 16	1.10	102	October 2	1.00	57
November 29	1.70	240	November 14	1.21	80
1901			1904		
April 5	3.00	526	January 20	1.30	105
October 22	1.00	90	January 21	1.27	100
1902			February 20	2.02	223
January 16	1.30	155	March 10	1.51	145
July 17	.90	97	May 27	1.00	44
October 18	0.80	78	May 27	1.00	50
November 13	.70	63	August 24	1.15	86
1903			September 22	1.03	72
May 25	2.05	243	December 13	1.05	52
July 27	1.37	111	December 13	1.05	49

Daily gage height, in feet, of Talladega Creek at Nottingham.

Day.	Aug.	Sept.	Oct.	Nov.	Dec.	Day.	Aug.	Sept.	Oct.	Nov.	Dec.
1900						1900					
1	.....	1.2	1.0	1.3	1.6	17	1.2	2.3	1.1	1.2	1.5
2	.....	2.0	1.0	1.3	1.4	18	1.2	1.7	1.1	1.2	1.5
3	.....	1.3	1.0	2.3	1.4	19	1.1	1.6	1.1	1.2	1.4
4	.....	1.1	1.0	2.1	1.8	20	1.1	1.5	1.0	1.5	2.7
5	.....	1.0	1.2	1.7	1.7	21	1.1	1.3	1.2	2.2	3.0
6	.....	1.0	1.3	1.5	1.6	22	1.1	1.2	1.4	1.9	2.6
7	.....	1.0	1.3	1.4	1.5	23	1.1	1.2	1.6	1.8	4.0
8	.....	.9	1.4	1.4	1.5	24	1.0	1.2	2.9	1.6	2.5
9	.....	11.0	1.3	1.3	1.4	25	.9	1.2	3.5	3.9	2.1
10	.....	8.0	1.3	1.3	1.3	26	1.0	1.2	3.0	3.8	2.0
11	.....	10.3	1.3	1.3	1.3	27	1.1	1.2	2.6	3.4	1.8
12	.....	8.0	1.5	1.3	1.3	28	1.2	1.2	1.4	2.0	1.7
13	.....	8.3	1.4	1.2	1.6	29	1.0	1.1	1.3	1.8	1.6
14	.....	9.3	1.8	1.2	1.8	30	1.0	1.1	1.3	1.7	1.9
15	.....	9.3	1.2	1.2	1.7	31	1.6	.....	1.3	.....	5.1
16	1.1	3.9	1.2	1.2	1.6						

Daily gage height, in feet, of Talladega Creek at Nottingham, Ala.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1901												
1	3.2	2.8	2.0	3.4	2.2	2.0	1.5	1.1	1.2	1.1	1.0	1.0
2	2.8	2.1	2.0	5.9	2.2	2.0	1.4	1.0	1.2	2.8	1.0	1.4
3	3.2	3.8	2.0	4.5	2.1	2.0	1.3	1.0	1.2	2.5	1.0	1.3
4	2.7	8.0	2.0	3.4	2.0	1.8	1.3	1.0	1.1	1.5	1.0	1.2
5	2.4	3.9	1.8	3.0	2.0	1.7	1.3	1.0	1.1	1.3	1.0	1.2
6	2.2	3.2	1.8	2.9	1.9	1.7	1.4	1.0	1.1	1.2	1.0	1.3
7	2.1	2.8	1.8	2.6	1.9	3.0	1.4	1.0	1.1	1.1	1.0	1.1
8	2.1	2.8	1.8	2.5	1.9	1.9	1.3	1.0	1.1	1.1	1.0	1.0
9	2.0	3.3	1.8	2.3	1.9	1.7	1.3	1.0	1.0	1.1	1.0	1.0
10	1.9	2.8	2.0	2.2	1.9	1.6	1.2	1.0	1.0	1.0	1.0	1.1
11	5.8	2.6	1.9	2.1	1.9	1.5	1.2	1.0	1.0	1.0	1.0	1.1
12	3.8	2.7	1.8	2.1	1.9	1.5	1.2	1.1	1.0	1.0	1.0	1.0
13	4.7	2.5	1.8	2.7	2.0	1.6	1.2	1.0	1.0	1.1	1.0	1.0
14	3.4	2.3	1.8	3.7	1.9	1.8	1.2	1.0	1.0	1.0	1.0	2.4
15	2.9	2.2	1.8	2.7	1.9	1.7	1.2	1.0	1.0	1.0	1.0	3.5
16	2.6	2.2	1.7	2.5	1.9	1.6	1.2	2.3	1.0	1.0	1.0	1.7
17	2.7	2.2	1.7	2.3	1.8	1.5	1.2	2.2	3.4	1.0	1.0	1.5
18	2.4	2.1	1.7	2.4	1.7	1.4	2.0	1.9	2.8	1.0	1.0	1.3
19	2.2	2.1	1.7	11.2	1.9	1.4	1.5	1.7	1.6	1.0	1.0	1.2
20	2.2	2.0	1.8	6.3	2.5	1.4	1.3	1.5	1.5	1.0	1.0	1.1
21	2.1	2.0	2.1	4.1	3.9	1.4	1.3	1.4	1.4	1.0	1.0	1.1
22	2.2	2.0	2.0	3.4	2.5	1.3	1.2	1.3	1.3	1.0	1.1	1.1
23	2.2	2.0	1.8	3.1	2.0	1.3	1.2	1.2	1.3	1.0	1.2	1.1
24	2.2	2.1	2.6	2.8	1.8	1.3	1.2	1.2	1.2	1.0	1.3	1.1
25	2.2	2.1	2.8	2.7	1.7	1.3	1.2	1.5	1.2	1.0	1.2	1.3
26	2.3	2.1	8.9	2.6	1.7	1.3	1.2	1.3	1.1	1.0	1.1	1.2
27	2.2	2.0	4.6	2.5	1.7	1.3	1.2	1.4	1.1	1.0	1.1	1.1
28	2.2	2.0	3.3	2.4	1.7	1.3	1.2	1.5	1.1	1.0	1.0	1.2
29	2.2	.....	2.8	2.3	1.7	1.3	1.2	1.4	1.1	1.0	1.0	8.4
30	2.6	.....	2.9	2.2	1.7	1.4	1.2	1.3	1.1	1.0	1.0	7.5
31	2.5	.....	5.5	.....	2.2	.....	1.2	1.2	.....	1.0	.....	3.5
1902												
1	2.40	5.60	5.00	3.50	1.80	2.60	.90	.90	1.00	1.40	.70	.80
2	2.20	8.90	3.70	3.10	1.70	1.50	.90	.80	.90	1.10	.70	2.40
3	2.00	4.40	3.10	2.90	1.60	1.30	.90	.80	.70	.90	.70	2.70
4	1.80	3.30	2.90	2.90	1.50	1.30	.90	.80	.70	.80	.70	1.60
5	1.70	2.70	4.60	2.70	1.50	1.20	1.00	.80	.70	.70	.70	1.40
6	1.60	2.50	3.30	2.50	1.50	1.10	1.00	.80	.70	.70	1.90	1.20
7	1.50	2.30	2.90	3.60	1.60	1.10	1.00	.80	.70	.70	1.10	1.30
8	1.50	2.10	2.60	3.20	1.90	1.10	.90	.80	.70	.70	.90	1.20
9	1.50	2.10	2.50	3.00	1.70	1.10	1.00	.80	.70	.70	.80	1.10
10	1.50	2.00	2.40	2.70	1.60	1.10	1.50	1.00	.70	.70	.80	1.00
11	1.40	1.90	2.30	2.50	1.60	1.10	2.00	1.20	.70	4.10	.70	.90
12	1.40	1.90	2.20	2.30	1.50	1.10	1.50	1.50	.70	1.90	.70	.80
13	1.30	1.90	2.20	2.30	1.40	1.10	1.20	1.10	.70	1.30	.70	.80
14	1.30	1.90	2.10	2.30	1.40	1.10	1.00	1.00	.70	1.00	.70	.80
15	1.30	2.30	2.60	2.20	1.40	1.10	1.00	.90	.70	.80	.70	.80
16	1.30	2.10	7.60	2.10	1.40	1.10	1.00	.80	.70	.80	.70	6.30
17	1.30	1.90	3.80	2.50	1.50	1.10	.90	.80	.70	.80	.70	2.50
18	1.30	1.80	2.70	2.30	1.60	1.00	.90	.80	.70	.70	1.20	1.80
19	1.40	1.80	2.60	2.20	1.50	1.00	.90	.80	.70	.80	1.00	1.40
20	1.90	1.90	2.40	2.10	1.40	1.00	.90	.80	.70	.80	.90	1.20
21	2.10	1.80	2.40	2.00	1.30	1.00	1.50	.80	.60	.80	.80	2.30
22	1.70	2.00	2.30	1.90	1.30	1.10	1.10	.70	.60	.80	.80	2.60
23	1.60	1.90	2.20	1.90	1.30	1.10	1.00	.70	.60	.80	.80	2.20
24	1.50	1.80	3.20	1.90	1.30	.90	1.00	.70	.60	.80	.80	1.50
25	1.80	1.90	3.20	1.80	1.20	.90	1.00	.70	.70	.80	1.90	1.30
26	1.60	1.80	2.50	1.80	1.20	.90	1.00	.70	.70	.80	1.40	1.10
27	1.80	3.60	2.50	1.80	1.20	.90	1.00	.70	.60	.80	1.10	1.10
28	3.30	12.20	12.50	1.80	1.10	.90	1.00	1.50	1.10	.80	.90	1.10
29	4.10	.....	10.70	1.80	1.10	.90	1.00	5.10	1.10	.70	.80	1.30
30	2.80	.....	5.20	1.80	1.10	.90	1.00	3.10	1.70	.70	.70	2.40
31	3.50	.....	3.90	.....	1.10	.....	1.00	1.00	.....	.70	.....	1.80

Daily gage height, in feet, of Talladega Creek at Nottingham, Ala.—Cont'd.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1903.												
1	1.7	1.3	6.4	3.8	2.0	2.5	1.9	1.7	1.0	1.0	1.0	1.1
2	2.1	1.3	4.2	3.4	1.9	2.3	1.8	1.8	1.0	1.0	1.0	1.1
3	2.2	1.3	4.0	3.2	1.8	2.0	1.7	1.6	.9	1.0	1.0	1.1
4	2.1	2.3	3.8	3.0	1.8	1.9	2.0	1.6	.9	1.0	1.0	1.1
5	1.9	2.1	3.5	2.8	1.8	1.8	2.5	1.4	.9	1.0	1.0	1.1
6	1.8	1.7	4.2	2.6	1.8	2.2	2.0	1.5	.9	1.0	1.0	1.2
7	1.6	6.8	3.4	2.5	2.8	2.0	1.8	1.5	.9	1.0	1.0	1.1
8	1.5	13.0	3.2	2.4	2.3	1.8	1.7	1.4	.9	1.0	1.1	1.1
9	1.3	5.5	3.2	2.2	2.0	1.8	2.0	1.4	.9	1.5	1.1	1.1
10	1.2	3.6	3.5	2.0	1.9	1.7	1.8	1.3	.9	1.3	1.1	1.1
11	1.5	a9.2	3.6	2.2	1.8	3.6	1.8	1.3	.9	1.1	1.1	1.1
12	2.7	6.5	3.5	3.0	1.8	2.2	1.8	1.3	.9	1.0	1.5	1.1
13	1.8	3.8	3.3	3.2	2.8	2.0	1.7	1.3	.9	1.0	1.5	1.1
14	1.6	3.2	3.6	3.0	4.1	1.8	1.6	1.3	.9	1.0	1.2	1.1
15	1.5	2.8	3.3	2.8	10.8	1.8	1.5	1.8	.9	1.1	1.2	1.1
16	1.4	b7.5	3.4	2.6	5.2	1.8	1.5	1.5	1.0	1.1	1.2	1.1
17	1.4	10.0	3.2	2.5	3.5	1.8	1.5	1.3	1.5	1.2	1.2	1.1
18	1.5	4.4	2.9	2.5	2.9	1.7	1.5	1.3	1.2	1.2	1.2	1.1
19	1.3	3.5	2.8	2.4	2.7	1.6	1.5	1.4	1.2	1.2	1.2	1.1
20	1.3	3.1	2.7	4.7	2.6	1.5	1.8	1.4	1.2	1.2	1.2	1.1
21	1.2	2.8	3.0	3.0	2.4	1.5	1.4	1.3	1.1	1.2	1.2	1.1
22	1.2	2.6	3.5	2.5	2.2	2.5	1.4	1.2	1.1	1.2	1.2	1.1
23	1.2	2.3	5.5	2.4	2.0	1.8	1.4	1.2	1.1	1.2	1.1	1.1
24	1.2	2.2	4.0	2.3	2.0	1.6	1.4	1.1	1.1	1.2	1.1	1.1
25	1.2	2.2	3.5	2.2	2.0	1.5	1.4	1.1	1.0	1.1	1.1	1.1
26	1.2	2.2	3.1	2.2	2.0	1.7	1.2	1.0	1.0	1.1	1.1	1.1
27	1.2	2.3	2.9	2.1	2.0	2.5	1.3	1.0	1.0	1.1	1.1	1.1
28	1.6	16.0	2.7	2.0	1.9	6.0	1.5	1.0	1.0	1.0	1.1	1.1
29	1.5	.....	2.9	2.0	1.9	2.5	1.4	1.0	1.0	1.0	1.1	1.1
30	1.4	.....	8.7	2.0	2.8	2.0	1.4	1.0	1.0	1.1	1.1	1.1
31	1.3	.....	4.8	.....	2.3	.....	1.6	1.0	.....	1.1	.....	1.1
1904												
1	1.10	1.30	1.60	1.30	1.15	1.20	1.70	1.75	1.00	1.00	0.90	1.10
2	1.10	1.60	1.50	1.30	1.10	1.40	1.20	2.45	1.00	1.00	1.00	1.10
3	1.10	1.70	1.50	1.35	1.10	1.20	1.20	1.35	1.00	1.00	1.10	1.10
4	1.10	1.70	1.50	1.35	1.10	1.10	1.10	2.10	1.05	1.00	1.10	1.05
5	1.10	1.60	1.40	1.35	1.10	1.00	1.10	5.60	1.00	1.00	1.10	1.20
6	1.10	1.60	1.40	1.40	1.00	1.00	1.10	3.20	1.00	1.10	1.10	1.20
7	1.10	2.70	.00	1.40	1.00	1.00	1.05	2.65	1.00	1.10	1.10	1.15
8	1.30	3.80	1.80	1.50	1.10	1.00	1.00	5.70	1.00	1.00	1.05	1.10
9	1.20	2.40	1.65	1.40	1.00	1.00	1.00	4.10	1.00	1.00	1.05	1.10
10	1.50	2.40	1.55	1.35	1.00	1.00	1.10	3.00	1.00	1.00	1.05	1.10
11	1.40	3.20	1.50	1.35	1.00	1.00	1.00	3.10	1.00	1.00	1.05	1.05
12	1.30	2.40	1.50	1.40	1.00	1.00	1.80	2.40	1.00	1.00	1.05	1.05
13	1.30	2.10	1.60	1.35	1.00	1.00	1.80	2.00	1.00	1.00	1.10	1.05
14	1.30	1.80	2.50	1.30	1.00	1.00	1.25	1.70	1.00	1.00	1.20	1.05
15	1.30	1.70	2.20	1.30	1.00	1.00	1.10	1.65	1.00	1.00	1.20	1.05
16	1.30	1.70	1.80	1.30	1.00	.90	1.05	2.10	.95	1.00	1.20	1.05
17	2.50	1.60	1.65	1.30	1.00	.85	1.00	1.55	.95	1.00	1.15	1.10
18	1.80	1.60	1.65	1.30	1.00	.80	1.00	1.40	.95	1.00	1.15	1.00
19	1.60	1.80	1.55	1.30	1.00	1.00	1.00	1.35	.95	1.00	1.10	1.00
20	1.40	2.10	1.50	1.30	1.00	1.00	1.00	1.30	.95	1.00	1.05	1.00
21	1.30	1.80	1.50	1.30	1.00	.90	1.00	1.20	1.00	1.00	1.05	1.00
22	4.00	2.00	1.45	1.30	1.00	.90	1.00	1.15	1.05	1.00	1.20	1.00
23	3.20	2.40	1.40	1.30	1.00	.90	1.00	1.10	1.40	1.00	1.45	1.00
24	2.00	2.10	1.40	1.30	1.00	.85	1.10	1.00	1.20	1.00	1.30	1.00
25	1.70	1.90	1.40	1.25	1.00	.85	1.20	1.00	1.00	.95	1.20	1.20
26	1.50	1.80	1.40	1.25	1.00	1.00	1.10	1.50	1.00	.95	1.15	1.50
27	1.40	1.70	1.40	1.25	1.00	.90	1.05	1.40	1.00	.90	1.10	2.50
28	1.40	1.60	1.40	1.20	1.00	.90	1.10	1.20	1.00	.90	1.10	2.90
29	1.40	1.60	1.35	1.20	1.00	2.15	1.05	1.10	1.00	.90	1.10	1.70
30	1.40	.....	1.35	1.20	1.00	1.20	1.40	1.10	1.00	.90	1.10	1.40
31	1.40	.....	1.35	.....	1.20	.....	1.60	1.00	.....	.90	.....	1.20

Rating table for Talladega Creek at Nottingham, Ala., for 1900 and 1901.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
1.0	90	1.8	262	2.6	438	3.8	702
1.1	109	1.9	284	2.7	460	4.0	746
1.2	130	2.0	306	2.8	482	4.2	790
1.3	152	2.1	328	2.9	504	4.4	834
1.4	174	2.2	350	3.0	526	4.6	878
1.5	196	2.3	372	3.2	570	4.8	922
1.6	218	2.4	394	3.4	614	5.0	966
1.7	240	2.5	416	3.6	658		

Rating table for Talladega Creek at Nottingham, Ala., for 1902.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
0.6	51	2.8	482	4.8	922	6.8	1,362
.8	78	3.0	526	5.0	966	7.0	1,406
1.0	109	3.2	570	5.2	1,010	7.2	1,450
1.2	143	3.4	614	5.4	1,054	7.4	1,494
1.4	179	3.6	658	5.6	1,098	7.6	1,538
1.6	219	3.8	702	5.8	1,142	7.8	1,582
1.8	262	4.0	746	6.0	1,186	8.0	1,626
2.0	306	4.2	790	6.2	1,230	9.0	1,846
2.2	350	4.4	834	6.4	1,274	10.0	2,066
2.4	394	4.6	878	6.6	1,318		
2.6	438						

Rating table for Talladega Creek at Nottingham, Ala., for 1903.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
0.90	46	2.10	256	3.40	568	5.60	1,096
1.00	57	2.20	280	3.60	616	5.80	1,144
1.10	69	2.30	304	3.80	664	6.00	1,192
1.20	83	2.40	328	4.00	712	6.20	1,240
1.30	99	2.50	352	4.20	760	6.40	1,288
1.40	116	2.60	376	4.40	808	6.60	1,336
1.50	133	2.70	400	4.60	856	6.80	1,384
1.60	151	2.80	424	4.80	904	7.00	1,432
1.70	170	2.90	448	5.00	952	8.00	1,672
1.80	190	3.00	472	5.20	1,000	9.00	1,912
1.90	211	3.20	520	5.40	1,048	10.00	2,152
2.00	233						

Rating table for Talladega Creek at Nottingham, Ala., for 1904.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
0.80	20	1.70	172	2.60	374	3.40	588
.90	34	1.80	192	2.70	400	3.50	616
1.00	50	1.90	213	2.80	426	3.60	644
1.10	66	2.00	235	2.90	452	3.70	672
1.20	82	2.10	257	3.00	478	3.80	700
1.30	98	2.20	279	3.10	504	3.90	730
1.40	116	2.30	302	3.20	532	4.00	760
1.50	134	2.40	326	3.30	560	4.10	790
1.60	152	2.50	350				

Estimated monthly discharge of Talladega Creek at Nottingham, Ala.

[Drainage area, 156 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum	Minimum.	Mean.	Sec.-feet per square mile.	Depth in inches.
1900					
August 16-31	.....	.....	113	0.72	0.43
September	2,286	74	575	3.69	4.12
October	636	90	190	1.22	1.41
November	724	130	249	1.60	1.79
December	746	152	291	1.87	2.16
1901					
January	1,802	284	485	3.11	3.59
February	1,626	306	449	2.88	3.00
March	1,824	240	405	2.60	3.00
April	2,330	328	591	3.79	4.23
May	724	240	306	1.96	2.26
June	526	152	218	1.40	1.56
July	196	130	149	.96	1.11
August	372	90	148	.95	1.10
September	614	90	148	.95	1.06
October	482	90	123	.79	.91
November	152	90	97	.62	.69
December	1,714	90	264	1.69	1.95
The year	2,330	90	282	1.81	24.46
1902					
January	768	161	276	1.77	2.04
February	2,550	262	513	3.29	3.43
March	2,616	328	676	4.33	4.99
April	658	262	390	2.50	2.79
May	284	126	187	1.20	1.38
June	438	93	128	.82	.91
July	306	93	121	.78	.90
August	988	64	135	.87	1.00
September	240	51	74	.47	.52
October	768	64	111	.71	.82
November	284	64	97	.62	.69
December	1,252	78	238	1.53	1.76
The year	2,616	51	246	1.57	21.23
1903					
January	400	83	144	0.92	1.06
February	3,592	99	832	5.33	5.55
March	1,840	400	637	4.08	4.70
April	880	233	388	2.49	2.78
May	2,344	190	387	2.48	2.86
June	1,192	133	265	1.70	1.90
July	352	83	161	1.03	1.19
August	190	57	105	.67	.77
September	133	46	59	.38	.42
October	151	57	74	.47	.54
November	133	57	75	.48	.54
December	83	69	69	.44	.51
The year	3,592	46	266	1.71	22.82

Monthly discharge of Talladega Creek at Nottingham, Ala.—Continued.

[Drainage area, 156 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-feet per square mile.	Depth in inches.
1904					
January	760	66	152	0.974	1.12
February	700	98	239	1.53	1.65
March	350	107	150	.962	1.11
April	134	82	101	.647	.722
May	82	50	54.4	.349	.402
June	279	20	63.3	.406	.453
July	192	50	78.1	.501	.578
August	1,320	50	278	1.78	2.05
September	116	42	52.5	.337	.376
October	66	34	47.9	.307	.354
November	125	34	69.0	.442	.493
December	452	50	91.7	.588	.678
The year	1,320	20	115	.735	9.99

TALLAPOOSA RIVER AT STURDEVANT, ALA.

Location.—At the Central of Georgia Railway bridge one-fourth mile west of Sturdevant, Ala., and 5 miles below the mouth of Hillabee Creek.

Records available.—July 19, 1900, to September 30, 1915.

Drainage area.—2,460 square miles.

Gage.—A vertical staff gage on the right bank of the river about 2,000 feet above the bridge. The original gage was a staff in two sections attached to the pier of the railroad bridge. A standard chain gage, installed July 10, 1905, was read until the summer of 1906, when the present gage was installed. The readings of the new staff gage are all corrected to agree with the readings of the standard chain gage referred to its original datum at the railroad bridge.

Channel.—Rocky and permanent; one side deep and sluggish at low stage. Both banks overflow for about 200 feet at extreme high stages.

Discharge measurements.—Made from a plank walk resting on the lower members of the deck railroad bridge. Some low-water measurements made from boat.

Artificial control.—The flow is under no artificial control except at a number of small mills a great distance upstream.

Accuracy.—A good rating has been developed and excellent results secured at this station.

Discharge measurements of Tallapoosa River at Sturdevant, Ala.

Date.	Gage height. Feet.	Discharge. Sec.-feet.
1900		
July 20	2.85	2,603
August 18	1.95	1,887
1901		
March 8	3.40	3,774
1902		
July 11	1.85	1,440
September 17	.80	658
October 9	1.08	858
November 12	1.34	1,000
1903		
May 22	4.00	4,580
July 25	2.45	2,247
August 22	2.20	1,837
August 24	1.88	1,485
August 24	1.86	1,616
October 3	1.05	834
October 3	1.05	835
November 24	1.58	1,148
1904		
January 25	3.57	3,718
March 11	3.05	2,866
April 12	2.40	2,011
May 28	.65	599
May 28	.65	592
August 25	2.12	1,643
August 26	3.14	2,978
August 27	5.50	8,292
October 13	.03	324
October 13	.03	326
October 13	.03	303
October 18	— .10	282
October 18	— .10	273
October 18	— .10	270
December 12	1.45	984
1905		
January 30	2.28	2,001
February 9	9.75	21,150
February 9	9.80	21,290
February 10	8.15	15,570
February 10	8.60	16,670
February 11	6.60	11,240
May 17	3.88	4,212
June 10	1.39	932
September 23	.34	285
October 26	2.33	1,833
1906		
March 17	6.36	10,500
March 17	6.36	10,100
June 8	2.18	1,770
1907		
July 30	3.20	3,270
1908		
March 28	4.62	5,770
October 24	.73	591
1911		
February 20	4.22	5,090

Daily gage height, in feet, of Tallapoosa River at Sturdevant, Ala.

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.	Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
1900							1900						
1	.....	4.30	3.40	1.80	2.50	2.90	17	.....	3.00	7.00	2.60	2.30	3.20
2	.....	3.40	6.10	1.70	3.40	2.80	18	.....	2.80	5.00	2.20	2.20	3.10
3	.....	2.80	4.20	1.60	4.70	2.70	19	2.95	4.00	3.80	2.10	2.20	3.00
4	.....	2.50	2.90	1.60	3.60	3.00	20	2.80	2.90	3.00	2.00	2.20	5.20
5	.....	2.40	2.50	3.30	3.30	3.20	21	3.05	2.40	2.70	1.90	2.50	6.80
6	.....	2.35	2.20	3.00	3.20	3.30	22	2.75	2.30	2.50	2.10	3.20	5.30
7	.....	2.25	2.00	3.00	2.90	3.20	23	2.65	2.40	2.40	5.00	3.50	4.90
8	.....	2.20	1.90	2.90	2.70	3.00	24	2.55	2.70	2.30	7.30	3.20	5.60
9	.....	2.10	1.80	3.10	2.60	2.80	25	2.65	2.50	2.20	6.40	4.80	4.70
10	.....	2.00	1.70	3.20	2.50	2.70	26	2.60	2.80	2.10	5.40	5.90	4.20
11	.....	1.95	1.60	3.30	2.40	2.60	27	2.50	2.60	2.00	4.20	5.40	3.90
12	.....	1.90	1.60	3.40	2.40	2.60	28	2.70	2.50	2.00	3.60	3.40	3.60
13	.....	2.00	1.60	3.50	2.40	2.70	29	6.50	2.40	2.00	2.90	3.20	3.40
14	.....	2.10	1.80	3.50	2.30	4.70	30	7.60	2.30	1.90	2.70	3.10	3.50
15	.....	2.60	8.80	3.00	2.30	3.00	31	5.00	2.80	.....	2.60	.....	7.50
16	.....	3.40	12.00	2.60	2.30	3.70							

Daily gage height, in feet, of Tallapoosa River at Sturdevant, Ala.—Cont'd.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1901												
1	7.0	4.6	3.8	7.4	3.8	5.5	4.0	3.1	3.2	2.4	1.6	1.7
2	6.8	4.5	3.8	6.8	3.7	5.5	3.5	2.8	2.9	4.5	1.6	1.7
3	6.0	5.8	3.7	3.3	3.7	5.3	3.2	2.5	2.7	6.0	1.6	2.1
4	5.4	12.9	3.7	7.4	3.6	5.2	3.0	2.3	2.6	3.4	1.6	2.2
5	4.9	9.4	3.6	5.7	3.5	4.8	2.9	2.3	2.4	2.7	1.7	2.3
6	5.2	7.7	3.6	5.0	3.5	4.6	2.8	2.2	2.3	2.3	1.8	2.2
7	5.1	6.5	3.5	4.7	3.4	5.6	4.3	2.1	2.2	2.1	1.8	2.1
8	4.0	5.4	3.4	4.4	3.4	4.9	4.0	2.4	2.1	2.0	1.8	2.1
9	4.0	5.7	3.4	4.2	3.3	3.8	3.4	2.2	2.0	2.0	1.8	2.2
10	4.1	5.4	3.9	4.0	3.3	3.6	3.0	2.0	2.0	2.0	1.8	2.2
11	6.0	5.2	4.3	3.9	3.3	3.4	2.6	2.2	2.0	1.9	1.7	2.3
12	14.1	5.1	4.0	3.9	3.2	3.3	2.3	2.4	2.0	1.9	1.7	2.2
13	11.0	4.8	3.8	4.1	3.2	3.2	2.2	2.3	2.0	2.1	1.7	2.1
14	9.2	4.6	3.6	6.0	3.4	4.9	2.1	2.2	4.0	2.1	1.8	3.0
15	6.1	4.4	3.4	6.4	3.3	4.4	2.1	2.0	3.4	2.0	1.8	7.8
16	5.3	4.3	3.3	5.3	4.2	4.1	2.0	5.3	2.8	2.0	1.8	5.9
17	5.7	4.2	3.3	4.7	3.1	3.8	2.2	7.2	3.6	1.9	1.8	4.1
18	5.3	4.2	3.2	4.4	3.0	3.6	3.8	5.9	7.0	1.9	1.8	3.5
19	4.0	4.1	3.2	8.5	3.0	3.3	3.6	5.3	5.2	1.8	2.0	3.0
20	4.4	4.1	3.6	9.0	3.3	3.1	3.2	6.6	4.3	1.8	2.2	2.8
21	4.3	4.0	4.3	6.7	6.1	3.0	3.0	5.8	3.4	1.7	2.2	2.6
22	4.2	4.0	3.9	5.2	7.6	2.9	2.8	5.6	3.0	1.7	2.3	2.5
23	4.1	4.0	3.7	4.8	7.0	2.8	2.4	11.7	2.4	1.7	2.2	2.5
24	4.2	4.0	4.5	4.6	6.5	2.7	2.2	8.3	2.3	1.7	2.2	3.0
25	4.3	4.0	4.3	4.4	5.3	2.7	2.1	5.2	2.2	1.7	2.1	2.8
26	4.2	4.0	5.4	4.3	6.3	2.6	2.1	4.0	2.1	1.7	2.1	2.7
27	4.1	3.9	8.7	4.2	4.5	2.6	2.1	3.3	2.0	1.6	2.0	2.6
28	4.3	3.9	8.2	4.1	4.4	2.5	2.1	4.4	2.0	1.6	1.9	2.8
29	4.5	.....	7.5	4.0	4.3	2.5	2.0	5.2	2.2	1.6	1.8	15.7
30	4.5	.....	5.0	3.9	4.2	5.2	2.1	4.3	2.3	1.6	1.8	17.2
31	4.6	.....	8.9	.....	4.0	.....	2.8	3.5	.....	1.6	.....	12.0
1902												
1	11.10	6.90	13.70	8.00	3.50	3.60	1.00	1.10	1.80	2.90	.9	2.80
2	8.40	11.40	11.00	7.20	3.40	3.10	1.00	1.30	1.50	2.50	.8	3.20
3	6.30	9.10	9.60	5.30	3.40	2.80	.90	1.20	1.30	2.30	.8	7.00
4	4.00	7.00	8.50	5.00	3.30	2.40	.90	1.10	1.90	1.90	.8	5.70
5	3.60	5.60	7.20	4.80	3.30	2.20	.80	2.00	1.60	1.60	1.2	4.50
6	3.40	5.00	6.00	4.70	3.30	2.10	1.40	1.80	1.50	1.40	2.8	4.10
7	3.30	4.80	5.50	4.60	3.20	2.10	1.20	2.50	1.40	1.20	2.7	4.00
8	3.20	4.30	5.00	6.40	3.20	2.00	1.10	2.30	1.20	1.00	2.6	3.90
9	3.10	4.00	4.80	5.20	3.20	2.20	1.20	1.10	1.50	1.90	2.50	3.70
10	3.00	3.80	4.60	5.00	3.20	2.10	1.10	1.10	1.40	1.80	2.30	3.30
11	2.90	3.70	4.50	4.80	3.10	2.00	1.90	1.20	1.10	2.30	2.10	2.90
12	2.90	3.60	4.40	4.50	3.10	1.90	1.60	1.20	1.00	2.00	1.90	2.60
13	2.80	3.50	4.80	4.40	3.10	1.80	1.50	1.40	.90	1.80	1.70	2.30
14	2.80	3.50	4.60	4.30	3.10	1.80	2.00	1.30	.80	1.60	1.50	2.10
15	2.70	4.10	5.90	4.20	4.20	1.70	2.30	1.00	.70	1.50	1.30	2.00
16	2.70	4.50	8.40	4.10	4.00	1.70	2.10	.90	.60	1.40	1.20	7.80
17	2.60	4.00	10.20	4.50	3.50	1.60	1.80	.80	.60	1.30	1.10	8.00
18	2.60	3.80	7.40	5.40	3.40	1.60	2.80	.70	.60	1.20	2.20	5.00
19	2.90	3.60	5.70	4.80	3.30	1.60	2.30	.60	.60	1.20	2.00	4.20
20	2.90	3.50	5.30	4.30	3.10	1.50	1.70	.50	.60	1.20	1.80	4.10
21	3.50	3.50	5.20	4.10	3.00	1.50	1.50	.50	.60	1.1	1.40	4.30
22	4.00	3.50	5.00	4.00	2.90	1.40	1.30	.50	.60	1.1	1.20	4.50
23	3.80	3.40	4.80	3.90	2.80	1.40	1.20	.60	.50	1.1	1.10	3.80
24	3.70	3.40	4.80	3.80	2.70	1.30	1.10	.60	.50	1.0	1.10	3.30
25	3.60	3.70	5.10	3.70	2.60	1.30	1.00	.50	.80	1.0	3.80	3.00
26	3.50	3.80	4.90	3.70	2.50	1.30	.90	.40	.80	1.0	5.20	2.80
27	3.40	3.90	6.80	3.70	2.40	1.20	.90	1.20	3.00	1.0	5.00	2.60
28	4.00	16.10	16.10	3.60	2.40	1.20	.80	2.40	4.10	1.0	4.30	2.50
29	4.50	.....	14.60	3.60	2.30	1.20	.90	6.00	3.20	.9	2.80	2.40
30	5.00	.....	10.90	3.50	2.30	1.10	1.00	3.40	4.10	.9	2.30	2.60
31	5.00	.....	9.20	.....	2.20	.....	1.00	2.30	.....	.9	.....	3.09

Daily gage height, in feet, of Tallapoosa River at Sturdevant, Ala.—Cont'd.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1903												
1	3.60	2.90	11.00	9.00	3.80	3.50	3.60	4.70	2.10	1.10	1.20	1.40
2	3.70	2.70	9.20	7.80	3.80	5.00	3.50	4.10	1.90	1.10	1.30	1.40
3	3.60	2.60	7.60	5.90	3.70	4.50	3.40	3.80	1.60	1.10	1.50	1.50
4	3.50	3.20	6.50	5.50	3.70	4.20	3.30	3.50	1.40	1.00	1.30	1.50
5	3.50	4.10	5.90	5.20	3.90	6.20	4.40	3.20	1.30	1.00	2.00	1.50
6	3.40	4.30	5.50	5.10	5.40	3.10	3.60	3.40	1.20	1.00	2.10	1.60
7	3.30	4.50	5.40	5.00	4.90	5.30	4.00	3.20	1.20	.90	2.10	1.60
8	3.20	19.20	5.10	4.90	4.50	5.00	4.40	3.00	1.10	1.10	2.00	1.60
9	3.10	14.00	4.90	8.10	4.30	4.80	4.50	2.80	1.10	2.70	1.80	1.70
10	3.00	10.00	5.30	7.60	4.10	4.50	3.60	2.70	1.00	2.00	1.60	1.80
11	3.10	12.10	6.50	6.00	4.00	5.50	3.30	2.50	1.00	1.50	1.50	1.80
12	3.70	13.80	5.80	5.50	4.00	4.50	3.10	2.20	.90	1.20	1.40	1.70
13	3.50	9.30	5.30	6.00	6.50	4.00	3.00	2.10	.90	1.00	2.10	1.70
14	3.30	6.60	5.10	6.20	6.30	3.80	3.20	2.00	1.00	.90	1.90	1.70
15	3.20	5.40	5.00	5.60	13.70	3.60	3.40	1.90	2.10	.90	1.80	1.60
16	3.00	4.80	4.90	5.20	9.50	3.50	3.10	3.00	3.20	1.00	1.70	1.60
17	2.80	14.60	4.80	4.70	6.80	3.30	2.90	3.80	2.80	1.20	1.60	1.60
18	2.70	12.00	4.70	4.50	5.30	3.20	2.70	5.60	2.40	1.50	1.60	1.60
19	2.60	10.20	4.60	4.40	4.90	3.10	2.60	3.80	2.20	1.40	1.30	1.50
20	2.60	8.90	4.50	10.60	4.40	3.10	2.50	3.00	2.00	1.30	1.70	1.90
21	2.50	5.20	4.50	6.50	4.20	3.00	2.40	2.50	1.90	1.20	1.70	2.00
22	2.50	4.60	5.30	5.40	4.10	2.90	2.30	2.30	1.70	1.10	1.70	1.90
23	2.50	4.20	8.40	5.10	3.80	2.90	2.20	2.20	1.50	1.10	1.60	1.90
24	2.50	4.00	9.50	4.60	3.70	2.80	2.10	2.10	1.40	1.00	1.60	1.90
25	2.50	3.80	8.20	4.20	3.60	2.80	2.10	1.80	1.40	1.00	1.60	2.10
26	2.50	3.70	6.00	4.10	3.50	3.00	2.40	1.70	1.30	1.00	1.50	2.90
27	2.50	3.70	5.60	4.00	3.50	5.80	2.20	1.60	1.30	.90	1.50	2.50
28	3.00	16.00	5.40	3.90	3.40	5.10	2.10	1.50	1.20	.90	1.50	2.20
29	3.10	.....	5.30	3.90	3.30	4.50	2.00	1.50	1.20	.90	1.50	2.00
30	3.10	.....	10.00	3.90	3.30	4.00	1.90	2.00	1.20	1.00	1.50	1.90
31	3.10	.....	9.80	.....	3.20	.....	5.80	2.40	.....	1.10	.....	1.70
1904												
1	1.7	2.6	2.8	2.2	1.8	3.2	2.3	3.0	1.6	0.5	—0.1	0.9
2	1.7	2.8	2.9	2.2	1.9	2.5	2.0	2.8	1.4	.4	.0	1.0
3	1.8	2.6	3.3	2.1	1.8	2.1	1.9	2.3	1.3	.3	.1	1.4
4	1.8	2.7	2.9	2.1	1.7	1.8	1.8	3.1	1.2	.2	.3	1.5
5	1.7	2.7	2.8	2.0	1.6	1.6	1.5	5.4	1.1	.2	.7	1.9
6	1.7	2.9	2.6	2.0	1.5	1.5	1.1	5.1	1.1	.1	.9	2.5
7	1.8	3.4	4.9	2.2	1.5	1.4	1.4	5.6	1.6	.1	.9	2.5
8	1.9	5.8	4.2	3.4	1.5	1.2	1.2	13.4	1.6	.1	.8	2.3
9	2.4	5.1	3.9	3.4	1.4	1.1	.6	9.1	1.3	.1	.8	2.0
10	3.3	4.4	3.5	2.9	1.4	1.0	.6	8.5	1.1	.0	.8	1.7
11	2.8	5.3	3.1	2.7	1.4	.9	.8	7.1	1.0	.0	.7	1.5
12	2.5	4.8	2.9	2.4	1.3	.9	1.3	6.0	.9	.0	.6	1.4
13	2.3	4.1	2.7	2.2	1.3	.7	3.0	4.3	.8	.0	.7	1.4
14	2.3	3.6	3.4	2.1	1.5	.6	1.6	3.5	.8	.0	.7	1.3
15	2.1	3.3	3.3	2.0	1.4	.6	1.0	3.0	.7	.0	.8	1.2
16	2.0	3.0	3.3	2.0	1.3	.5	.7	4.5	.7	.0	.9	1.2
17	3.9	2.9	3.0	2.0	1.3	.5	.6	3.2	.6	.0	.8	1.3
18	3.4	2.8	2.9	1.9	1.2	.4	.5	3.8	.6	— .1	.9	1.3
19	3.2	2.8	2.8	1.9	1.2	.3	1.5	3.0	.6	— .1	.8	1.2
20	3.0	3.6	2.7	1.9	1.1	.2	.6	2.5	.5	.0	.9	1.1
21	2.6	3.7	2.6	1.9	1.1	.2	.3	2.2	.5	.0	1.0	1.1
22	3.8	4.6	2.5	1.9	1.0	.4	.6	2.0	.9	— .1	1.2	1.1
23	5.4	5.1	2.5	1.9	.9	1.2	1.3	1.8	2.0	— .1	2.0	1.1
24	4.3	4.8	2.5	1.9	.9	1.4	2.8	1.5	2.6	— .1	1.9	1.1
25	3.6	4.1	2.4	1.8	.8	1.3	1.5	2.1	1.7	— .2	1.5	1.7
26	3.1	3.6	2.4	2.0	.7	1.0	1.0	3.5	1.0	— .2	1.3	1.8
27	2.8	3.2	2.4	1.9	.7	.9	.7	5.0	.8	— .2	1.1	3.4
28	2.5	3.1	2.4	2.0	.6	.8	.7	3.5	.7	— .2	1.0	4.8
29	2.5	2.9	2.4	2.1	.6	4.4	1.2	2.6	.6	— .2	.9	4.0
30	2.4	.....	2.3	2.0	.6	2.3	2.5	2.3	.5	— .1	.9	2.9
31	2.4	.....	2.2	.....	2.8	.....	2.6	1.9	.....	— .1	.....	2.5

Daily gage height, in feet, of Tallapoosa River at Sturdevant, Ala.—Cont'd.

Day.	Jan.	Feb.	Mar.	Apr.	May	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1905												
1	2.1	2.7	3.2	2.7	2.75	2.3	2.9	2.5	2.3	0.4	1.1	1.6
2	1.9	2.6	3.1	2.7	2.55	2.2	2.2	2.0	1.4	1.5	1.1	1.4
3	1.8	2.4	3.0	2.7	2.7	2.0	1.9	1.6	1.7	1.4	1.0	8.4
4	1.75	2.35	2.9	2.6	2.9	1.85	1.6	1.2	2.2	1.3	1.0	10.3
5	1.6	2.5	2.9	2.7	3.0	1.8	1.45	1.1	1.9	1.9	1.0	7.4
6	1.7	3.7	2.9	2.8	2.7	1.7	1.3	.9	1.49	1.3	.95	5.5
7	2.2	4.0	2.8	2.8	2.4	1.65	1.2	.8	1.2	1.1	.95	3.8
8	1.9	5.4	2.8	3.1	3.0	1.6	1.3	.7	1.1	.8	.9	3.4
9	1.7	9.5	3.3	3.3	3.5	1.5	1.8	1.6	.9	.75	1.0	8.4
10	2.1	8.8	3.8	3.1	3.1	1.4	2.0	1.5	.8	.9	1.2	8.2
11	1.9	6.6	3.9	3.6	2.7	1.4	2.45	3.0	.7	1.5	1.8	6.8
12	9.0	6.0	3.6	3.4	2.5	1.35	3.9	4.4	1.0	1.7	2.0	5.8
13	15.8	8.6	3.5	3.9	2.3	1.3	4.1	6.7	.9	1.4	2.0	3.6
14	10.5	7.7	3.4	3.8	2.1	1.8	3.2	4.0	.75	1.25	1.8	3.2
15	8.0	5.8	3.3	3.4	2.0	2.25	2.6	2.9	1.0	1.2	1.6	3.1
16	5.1	4.9	3.1	3.4	3.6	1.85	2.1	3.4	.9	1.4	1.45	3.3
17	3.8	4.3	3.0	3.2	3.9	1.7	1.65	7.5	.7	1.65	1.3	3.4
18	3.1	4.0	2.9	3.0	3.6	2.4	1.4	4.6	.6	1.6	1.2	3.3
19	3.0	3.9	2.8	2.85	2.9	2.4	1.3	3.7	.6	1.55	1.1	3.5
20	3.2	4.2	3.3	2.7	2.6	2.2	1.5	3.1	.5	1.4	1.1	4.6
21	3.0	4.8	6.4	2.65	2.6	2.3	1.2	2.6	.5	1.15	1.1	8.4
22	2.8	5.8	6.2	2.85	3.2	2.0	1.25	2.9	.45	1.0	1.0	7.7
23	2.7	4.9	5.1	2.8	3.6	1.8	1.1	2.4	.4	.9	1.1	6.1
24	2.5	4.3	4.0	2.8	3.4	2.2	1.0	2.2	.3	.8	1.1	5.4
25	2.4	4.0	3.6	2.65	3.6	1.8	1.95	2.0	.25	.9	1.2	4.6
26	2.2	3.7	3.4	2.55	4.0	2.0	1.7	2.2	.2	2.4	1.2	4.0
27	2.1	3.4	3.2	2.55	3.5	2.2	1.4	2.1	.1	1.8	1.3	3.6
28	2.1	3.3	3.1	2.5	3.4	3.0	1.35	2.3	.1	1.7	1.25	3.4
29	2.0	.....	3.0	2.6	2.9	2.5	2.65	1.8	.1	1.6	1.4	3.6
30	2.2	.....	2.9	3.0	2.75	2.3	2.2	1.7	.2	1.4	1.85	3.5
31	2.5	.....	2.8	.....	2.4	.....	2.1	2.2	.....	1.2	.....	3.3
6												
1	3.15	3.45	2.85	5.4	2.85	2.3	2.0	3.6	4.5	8.6	2.9	2.9
2	3.0	3.3	2.8	4.8	2.8	2.2	2.5	3.9	4.3	8.1	2.85	2.9
3	6.8	3.2	5.4	4.4	2.75	2.2	4.4	4.4	3.8	7.4	2.8	2.85
4	12.4	3.1	5.6	4.2	3.1	2.15	3.7	6.0	4.1	6.2	2.8	2.9
5	9.0	3.1	5.1	4.0	4.3	2.2	3.1	4.3	3.9	5.0	2.7	2.85
6	7.5	3.0	4.0	3.9	4.2	2.5	2.9	4.5	7.0	4.7	2.7	2.8
7	5.2	3.1	3.4	3.7	4.8	2.25	2.25	4.6	9.1	4.3	2.7	2.95
8	4.3	3.2	6.8	3.6	6.7	2.2	3.0	4.0	5.4	3.8	2.7	2.95
9	3.9	3.45	6.4	3.5	4.9	2.1	6.5	3.1	4.3	3.5	2.65	2.95
10	3.6	3.25	5.2	3.8	4.1	2.0	4.4	2.8	5.4	3.25	2.7	2.9
11	3.6	3.3	4.5	4.0	3.5	2.15	4.0	4.9	5.5	3.05	2.65	3.5
12	3.65	3.2	4.1	4.5	3.2	2.2	3.0	4.7	6.7	2.95	2.6	4.7
13	3.55	3.15	3.75	3.9	3.1	2.3	2.9	4.0	4.7	2.9	2.6	4.0
14	3.45	3.1	3.6	3.9	3.0	5.4	3.4	9.4	3.9	2.8	2.65	3.6
15	3.35	3.1	6.1	4.2	2.95	8.3	8.5	6.3	3.4	2.75	2.95	3.25
16	3.3	3.0	6.5	4.1	2.8	6.8	7.0	5.5	3.05	2.7	3.25	3.05
17	3.25	2.9	6.7	3.9	2.75	5.0	5.1	4.3	2.9	2.7	3.05	4.9
18	3.25	2.8	5.0	3.6	2.7	4.1	5.6	3.5	2.8	5.3	3.45	6.5
19	3.2	2.8	18.8	3.5	2.65	3.5	6.4	4.2	2.7	9.4	9.6	5.4
20	3.2	2.75	21.6	3.4	2.6	3.1	7.8	4.1	3.25	7.8	7.1	5.1
21	3.5	3.8	14.6	3.35	2.5	2.7	5.5	3.7	3.6	6.6	6.3	4.7
22	6.8	3.7	12.0	3.3	2.7	2.55	4.0	3.4	3.8	4.7	4.8	4.3
23	7.9	3.5	9.2	3.3	2.6	2.4	5.8	3.35	3.6	3.9	4.1	3.9
24	6.5	3.25	5.6	3.25	2.5	2.3	6.5	3.25	3.8	3.5	3.6	3.6
25	5.7	3.35	4.6	3.15	2.45	2.15	5.5	3.25	3.7	3.4	3.35	3.4
26	4.5	3.15	4.3	3.1	2.4	2.25	4.3	4.0	3.6	3.35	3.2	3.3
27	4.2	3.05	4.5	3.05	2.5	2.8	4.0	3.35	3.25	3.15	3.15	3.25
28	4.0	2.9	7.6	3.0	2.55	3.1	3.3	3.4	3.6	3.05	3.09	3.15
29	3.85	.....	8.2	3.0	2.6	2.9	3.6	5.2	4.6	2.95	2.95	4.1
30	3.8	.....	7.2	2.95	2.5	2.4	4.4	3.8	5.6	2.9	2.9	4.4
31	3.6	.....	6.2	.....	2.4	.....	4.7	4.3	.....	2.85	.....	9.7

Daily gage height, in feet, of Tallapoosa River at Sturdevant, Ala.—Cont'd.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1907.												
1	10.0	4.8	7.9	3.4	4.3	4.1	3.8	2.25	1.05	1.5	1.0	3.5
2	8.0	11.6	10.8	3.45	4.1	3.75	3.3	1.95	.95	1.5	1.05	3.15
3	6.6	9.5	10.1	3.4	3.8	3.6	3.25	2.15	.85	1.35	1.45	2.8
4	4.9	6.8	8.2	3.25	4.1	3.4	3.25	1.9	1.05	1.25	1.65	2.5
5	4.4	10.8	6.3	3.15	4.3	3.3	3.05	1.7	.9	1.25	1.55	2.35
6	4.1	8.7	4.1	3.3	3.9	3.3	2.6	1.6	1.6	1.15	1.5	2.25
7	3.9	6.8	4.7	3.45	7.1	3.05	2.35	1.9	1.7	1.35	1.35	2.15
8	3.85	5.4	4.4	4.1	5.8	2.85	2.25	1.8	1.45	1.35	1.25	2.15
9	3.7	4.9	4.3	4.0	6.5	2.8	2.35	1.95	1.25	2.4	1.15	2.2
10	3.7	4.5	4.1	3.6	5.2	2.8	2.5	2.35	1.05	1.9	1.5	4.9
11	3.6	4.3	4.1	3.25	4.8	2.75	2.35	1.7	3.95	1.6	2.25	5.0
12	3.55	4.1	4.0	3.15	4.7	3.15	2.55	2.4	2.85	1.45	2.26	4.1
13	3.5	4.1	3.9	3.05	4.4	2.8	2.35	2.85	1.5	1.25	2.05	3.6
14	3.5	4.0	3.9	2.95	4.1	3.6	2.25	3.05	1.35	1.15	1.8	5.0
15	3.4	3.9	4.2	2.85	8.7	4.0	2.2	2.4	1.35	1.05	1.6	4.5
16	3.3	3.8	4.1	2.85	9.7	3.3	2.6	1.95	1.25	1.0	1.45	4.2
17	3.3	3.7	4.0	6.8	7.5	2.95	2.6	1.7	1.15	1.0	1.35	3.8
18	3.25	3.6	3.8	6.0	5.2	2.7	2.35	2.7	1.0	1.0	1.5	3.3
19	3.25	3.55	3.7	5.6	4.6	2.6	2.05	2.25	1.0	1.05	1.6	3.25
20	3.55	3.6	3.65	5.4	4.1	2.5	1.9	1.95	.9	1.0	2.05	3.05
21	3.3	3.6	3.6	4.5	3.9	2.4	1.9	1.8	.8	.95	4.1	2.85
22	3.4	3.55	3.5	4.5	3.7	2.35	1.95	3.8	1.0	.9	6.7	2.7
23	3.3	3.45	3.45	7.0	3.5	2.35	2.05	2.7	3.7	1.0	8.0	7.5
24	3.25	3.4	3.4	6.6	3.7	2.7	1.9	1.95	2.6	1.05	7.5	6.1
25	3.2	4.3	3.3	5.2	3.6	2.8	1.7	1.7	1.95	1.0	5.6	4.7
26	3.3	4.7	3.3	4.5	3.6	3.5	2.35	1.5	1.9	1.05	4.1	4.0
27	3.5	5.3	3.25	4.1	4.0	3.3	3.9	1.6	1.6	1.05	3.4	3.5
28	3.35	6.1	3.2	4.4	4.9	3.2	3.25	1.5	1.5	1.15	2.95	3.3
29	3.25	.....	3.2	7.1	4.1	4.5	2.8	1.45	1.7	1.05	2.6	5.7
30	3.15	.....	3.15	5.1	3.65	4.1	3.25	1.35	1.6	1.0	3.4	6.6
31	3.7	.....	3.2	.....	4.4	.....	2.8	1.25	.....	1.0	.....	7.0
1908.												
1	6.8	10.7	4.1	3.7	3.8	3.05	1.6	1.5	1.25	.6	1.45	1.35
2	4.6	8.6	3.9	3.6	3.5	2.8	1.5	1.6	1.15	.55	1.6	2.45
3	4.1	6.5	3.85	3.55	3.4	2.65	1.9	1.6	1.05	.6	2.25	2.35
4	3.7	5.1	4.1	3.4	3.25	2.7	2.05	1.35	1.0	.6	4.7	2.05
5	5.0	4.4	4.4	3.3	3.15	3.7	1.8	2.05	.9	.7	3.6	1.8
6	5.2	4.5	4.0	3.4	4.5	3.05	2.35	2.35	3.3	.7	2.8	1.8
7	5.3	4.3	3.85	3.35	5.1	2.8	3.5	2.95	4.3	.75	2.2	2.5
8	5.0	4.1	3.7	3.4	4.6	2.85	3.6	2.35	3.25	.6	1.9	2.85
9	4.3	3.8	3.6	3.3	4.1	2.6	2.95	2.0	2.5	.6	1.6	4.25
10	3.9	5.0	3.5	3.25	3.75	2.4	2.5	1.9	1.95	.8	1.45	3.6
11	4.3	6.5	3.45	3.15	3.4	2.7	2.5	1.7	1.6	1.5	1.6	2.5
12	5.5	6.3	3.4	3.05	3.25	2.95	2.65	1.8	1.35	1.95	1.6	2.25
13	4.8	5.5	3.4	2.95	3.15	2.6	2.55	1.5	1.15	1.45	1.45	2.05
14	3.9	6.1	3.5	2.95	3.0	2.4	2.15	1.35	1.05	1.25	1.25	1.9
15	3.7	13.5	3.4	2.95	2.95	2.5	1.9	1.15	1.0	1.05	1.35	1.85
16	3.6	11.5	3.3	5.0	2.85	2.4	1.75	1.05	.9	1.0	1.35	1.75
17	3.6	8.6	3.3	5.0	2.95	2.35	1.7	1.0	.8	.9	1.3	1.7
18	3.5	6.2	3.25	4.2	4.3	2.15	1.5	1.05	.75	.8	1.25	1.7
19	3.4	6.6	3.25	3.7	5.0	2.05	1.5	1.8	7	1.05	1.35	1.6
20	3.25	6.8	3.15	3.4	4.6	1.95	1.6	2.7	.65	.9	1.25	1.6
21	3.15	5.1	3.15	3.95	3.9	1.95	2.4	2.85	.65	.8	1.25	1.7
22	3.15	4.8	3.25	3.5	3.4	1.8	2.05	3.7	.7	.65	1.25	5.8
23	3.15	4.5	5.1	4.2	3.15	2.95	1.7	3.9	.8	7	1.25	6.9
24	3.05	4.2	9.6	3.9	2.95	2.6	1.5	4.1	.7	7	1.2	5.1
25	2.95	4.1	8.4	8.1	2.95	3.35	1.7	2.4	7	75	1.25	3.9
26	2.85	4.1	6.7	8.2	3.7	2.7	3.4	2.8	0.7	0.75	1.25	2.85
27	2.85	4.7	5.2	8.2	4.2	2.4	2.4	2.7	.7	.6	1.25	2.7
28	2.9	4.5	4.6	6.0	3.9	1.9	1.95	2.45	.65	.9	1.2	2.4
29	2.85	4.2	4.2	4.3	3.3	1.8	1.85	2.05	.6	1.05	1.25	2.25
30	2.85	.....	3.95	3.95	3.9	1.7	2.0	1.7	.6	1.45	1.25	2.15
31	2.85	.....	3.9	.....	3.7	.....	1.95	1.45	.....	1.45	.....	2.05

Daily gage height, in feet, of Tallapoosa River at Sturdevant, Ala.—Cont'd.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1909												
1	2.15	1.75	3.5	3.9	8.4	3.5	3.25	5.3	3.05	1.6	1.4	1.7
2	2.1	1.75	3.3	3.8	7.9	4.0	3.25	4.1	2.9	1.6	1.5	1.7
3	2.05	1.8	3.3	3.7	7.3	4.8	3.05	12.3	4.0	1.5	1.75	1.6
4	1.95	1.75	3.05	3.6	5.4	5.8	2.8	11.7	2.95	1.45	1.55	1.6
5	2.05	1.7	3.3	3.5	4.9	5.6	2.6	7.8	2.15	1.4	1.45	1.6
6	2.95	4.1	3.15	3.5	4.3	5.1	2.5	6.5	2.0	1.35	1.45	1.6
7	3.05	4.6	3.95	3.6	4.0	4.8	2.4	6.1	2.0	1.35	1.45	3.1
8	3.3	3.7	7.6	4.1	3.85	4.2	2.4	5.4	2.4	1.35	1.45	5.4
9	2.95	3.05	5.6	4.5	3.7	3.4	4.1	4.2	2.8	1.35	1.4	4.5
10	2.4	10.5	17.3	4.1	4.6	3.3	5.1	3.7	2.0	1.35	1.45	3.9
11	2.15	8.7	13.1	3.9	4.2	4.1	4.8	3.6	2.0	1.3	1.45	3.05
12	2.05	6.0	12.1	3.6	4.1	4.3	4.1	3.35	2.45	1.4	1.45	2.8
13	2.05	4.7	10.0	4.1	3.6	3.8	4.6	4.1	2.15	1.3	1.45	5.4
14	2.2	7.8	14.7	4.6	3.4	3.6	5.4	3.55	1.9	1.35	1.45	5.2
15	2.35	7.6	12.5	4.4	3.3	3.4	4.4	3.2	1.85	1.35	1.4	4.5
16	2.5	9.9	10.3	4.0	3.25	4.1	4.7	3.2	1.9	2.8	1.45	3.85
17	2.95	7.9	7.5	3.7	3.6	3.7	4.6	3.85	2.5	2.9	1.9	3.2
18	3.15	5.9	5.2	3.4	3.4	3.4	3.7	3.4	2.25	2.3	2.25	2.75
19	3.4	5.0	4.9	3.3	3.4	3.3	3.8	2.8	2.1	1.95	1.9	2.7
20	2.8	4.7	5.2	3.25	4.6	3.6	4.4	2.85	1.9	1.7	1.8	2.75
21	2.55	4.3	13.3	3.15	4.0	4.2	3.7	2.4	2.1	1.6	1.7	2.65
22	2.35	7.8	9.4	3.05	4.0	5.6	2.85	2.3	3.45	1.95	1.6	2.55
23	2.25	6.0	7.0	5.0	3.8	4.8	2.8	2.15	3.25	2.4	3.3	2.4
24	2.15	6.8	5.7	7.5	3.4	4.4	4.6	2.05	2.8	2.15	3.75	2.35
25	2.15	5.8	5.4	7.0	3.9	4.5	3.5	2.05	2.7	1.95	3.1	3.3
26	2.1	5.0	5.2	5.2	4.1	3.9	2.8	1.95	2.25	1.8	2.4	2.35
27	2.05	4.2	5.0	5.4	5.1	4.7	2.4	1.9	2.0	1.6	2.15	2.55
28	1.95	3.8	4.6	5.6	6.7	4.1	2.35	1.9	1.9	1.5	1.85	2.25
29	1.95	.....	5.2	6.6	4.4	3.5	2.25	1.8	1.75	1.5	1.7	2.8
30	1.9	.....	4.5	5.3	3.8	3.5	2.25	2.0	1.65	1.5	1.7	2.5
31	1.8	.....	4.1	.....	4.0	.....	2.7	2.1	.....	1.45	.....	2.35
1910												
1	2.25	2.25	3.1	2.8	2.25	1.9	16.5	1.95	1.4	2.25	1.05	1.65
2	2.25	2.95	7.8	2.5	2.15	1.85	14.2	1.9	1.55	1.6	1.05	1.4
3	2.25	3.65	6.4	2.5	2.05	1.75	11.9	1.8	1.8	1.4	1.2	1.35
4	2.25	3.8	5.1	2.5	2.05	1.65	9.4	1.7	2.6	1.2	1.15	1.45
5	2.25	3.3	4.3	2.55	2.05	1.7	7.0	3.0	2.8	1.1	1.3	3.9
6	2.35	3.1	3.9	2.8	2.05	1.85	5.3	4.7	1.9	1.15	1.5	5.0
7	3.25	2.85	3.7	2.8	2.0	1.95	5.0	6.1	1.65	2.4	1.6	4.3
8	4.0	2.75	3.5	2.65	2.3	1.9	5.2	7.0	1.5	3.25	1.5	3.3
9	3.7	2.7	3.4	2.4	2.65	1.9	4.7	4.7	1.65	2.95	1.4	2.65
10	3.15	2.6	3.3	2.35	3.4	3.0	4.1	3.85	1.9	2.8	1.35	2.3
11	2.8	3.15	3.55	2.35	2.8	3.3	4.0	3.45	1.95	2.55	1.25	2.1
12	2.6	4.4	3.6	2.4	2.35	3.7	3.9	4.4	1.95	2.05	1.25	1.9
13	2.45	4.3	3.45	3.1	2.1	3.25	3.85	4.1	1.8	1.75	1.2	1.9
14	2.4	4.3	3.3	3.25	2.0	3.8	3.35	2.85	1.5	1.55	1.2	1.8
15	2.35	3.4	3.1	2.8	1.95	3.65	2.85	2.5	1.5	1.4	1.25	1.7
16	2.35	3.1	3.0	2.75	1.9	2.95	2.55	2.3	1.4	1.4	1.15	1.7
17	2.25	3.6	2.95	4.9	1.9	2.45	2.95	2.15	1.25	1.25	1.2	1.7
18	2.25	6.5	2.85	4.5	2.5	2.3	2.8	2.05	1.05	1.2	1.25	1.8
19	2.35	7.0	3.0	3.7	2.6	2.0	2.65	2.05	.95	1.15	1.3	1.9
20	2.45	6.0	3.2	3.25	2.65	1.9	2.6	2.35	1.05	1.05	1.45	1.9
21	3.1	4.5	3.0	2.8	3.55	2.9	2.45	2.35	.95	1.05	1.35	1.8
22	3.3	5.3	2.9	2.65	3.6	3.3	2.4	2.05	.95	1.0	1.35	1.7
23	3.3	4.9	2.85	2.6	4.5	2.85	2.45	1.75	1.35	.94	1.35	1.7
24	3.3	4.8	2.85	2.5	4.2	2.55	2.45	1.7	1.2	.85	1.25	1.9
25	3.3	5.2	2.8	2.4	4.3	2.3	2.7	1.7	.96	88	1.3	1.95
26	3.25	4.6	2.8	2.4	3.8	2.3	2.6	1.7	.92	.81	1.35	1.9
27	3.05	4.1	2.75	2.35	3.2	2.25	2.6	1.6	.72	.98	1.3	1.9
28	3.5	4.8	2.7	2.4	2.7	1.95	2.3	1.6	.80	1.2	1.35	1.8
29	4.3	.....	2.65	2.4	2.4	2.5	2.1	1.5	1.90	1.25	2.45	1.8
30	4.1	.....	2.6	2.4	2.15	5.8	2.15	1.45	3.3	1.2	1.95	2.85
31	3.65	.....	2.6	.....	1.95	.....	2.1	1.45	.....	1.15	.....	3.3

Daily gage height, in feet, of Tallapoosa River at Sturdevant, Ala.—Cont'd.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1911												
1	2.8	2.15	2.6	2.6	2.85	1.9	1.3	1.5	1.05	0.38	1.8	2.15
2	5.0	2.05	2.6	2.45	3.05	1.75	1.15	5.8	1.1	.29	1.4	1.9
3	12.3	2.05	2.7	2.4	2.95	1.6	1.1	5.4	1.0	.27	1.35	1.8
4	11.0	2.15	2.6	2.65	2.8	1.5	1.15	5.1	1.0	.22	1.3	1.7
5	7.6	2.35	2.5	7.9	2.55	1.55	1.65	4.5	1.8	.18	1.2	1.6
6	5.6	2.25	2.4	8.3	2.4	2.1	3.6	3.0	1.9	.18	1.4	1.6
7	4.3	3.2	2.4	6.3	2.4	2.1	2.2	2.4	2.2	.14	2.4	1.55
8	3.6	3.55	2.35	5.2	2.35	1.8	1.6	2.05	1.9	.09	3.3	1.5
9	3.3	4.0	2.35	6.7	2.25	1.55	1.35	1.8	1.25	.09	6.5	1.5
10	3.15	5.2	2.35	7.5	2.15	1.6	1.5	1.7	1.15	.11	5.6	1.5
11	2.9	4.9	2.4	6.7	2.15	1.55	1.35	1.6	1.0	.29	4.1	1.5
12	2.8	5.8	2.35	5.0	2.05	1.4	2.15	1.8	.9	.71	3.2	1.5
13	2.7	5.6	2.3	4.5	2.05	1.4	2.4	1.65	.81	1.3	2.7	1.5
14	2.6	4.5	2.25	4.1	1.95	1.3	2.9	2.45	.70	1.0	2.35	1.5
15	2.5	3.95	2.15	3.85	1.9	1.2	3.2	2.45	.62	.88	2.1	1.4
16	2.4	3.6	2.15	3.5	1.9	1.0	5.3	1.9	.56	.84	1.9	2.05
17	2.4	3.45	2.05	3.3	1.8	1.0	6.9	3.45	.54	2.3	1.85	2.15
18	2.35	3.2	2.05	3.2	1.9	1.25	6.5	4.3	.54	2.45	1.85	1.95
19	2.35	3.0	2.25	3.25	1.8	1.55	6.4	3.45	.56	3.3	2.2	1.9
20	2.35	3.05	3.0	3.15	1.9	1.65	4.5	2.8	.75	2.45	2.45	2.8
21	2.25	4.2	3.15	3.6	3.3	2.15	3.7	2.15	1.25	1.75	2.3	4.7
22	2.25	3.9	2.85	3.25	3.5	2.75	3.35	1.8	1.1	1.45	1.95	6.0
23	2.25	3.4	2.6	3.0	5.0	2.75	3.6	1.6	1.5	1.1	1.8	6.8
24	2.2	3.1	2.4	2.8	5.1	2.2	3.05	1.5	1.35	1.0	1.7	5.9
25	2.15	2.9	2.25	2.7	3.4	1.85	3.65	1.4	1.05	.95	1.75	4.7
26	2.05	2.8	3.1	2.65	2.75	1.65	3.5	1.25	.9	.84	1.9	4.1
27	2.15	2.7	4.3	2.65	2.35	2.4	2.65	1.2	.65	.88	1.8	3.2
28	2.15	2.6	4.1	3.35	2.15	2.15	2.25	1.15	.65	.95	2.35	3.0
29	2.15	.....	3.45	3.15	2.0	2.05	1.95	1.35	.58	1.25	2.55	4.1
30	2.25	.....	3.05	2.7	1.85	1.6	1.7	1.1	.58	1.1	2.3	4.1
31	2.25	.....	2.75	.....	1.8	.....	1.55	1.05	.....	1.45	.....	3.3
1	5.0	6.7	4.8	8.5	6.1	3.4	3.2	2.3	2.1	2.3	2.0	1.9
2	4.7	5.6	4.5	6.1	5.4	3.2	4.0	2.2	2.0	2.2	1.9	1.9
3	4.3	4.3	4.5	5.4	4.9	3.3	3.3	2.4	2.0	2.2	1.9	2.0
4	4.0	4.0	4.9	5.0	4.8	3.0	3.9	3.2	1.9	2.2	1.8	3.1
5	3.8	3.9	5.6	4.9	5.2	4.0	4.1	3.0	1.9	3.9	1.8	4.4
6	3.6	3.8	7.1	4.7	4.5	4.0	4.0	2.7	1.9	5.8	1.9	4.2
7	4.3	3.6	6.6	4.6	5.8	4.5	4.3	5.6	1.8	4.0	1.8	3.5
8	9.8	3.5	5.8	4.6	7.1	4.1	3.6	5.0	1.8	3.0	1.8	3.6
9	7.2	3.4	5.6	4.5	6.5	3.7	5.2	5.5	1.7	2.4	1.7	3.3
10	5.9	3.6	5.1	4.4	5.4	3.3	5.2	6.1	1.6	2.2	1.7	3.2
11	4.9	4.7	5.0	4.5	5.0	3.0	4.9	6.5	1.6	2.1	1.8	3.0
12	4.3	4.4	5.8	4.3	5.4	2.9	4.0	5.1	1.6	2.1	1.9	2.9
13	4.0	4.1	5.2	6.0	5.0	3.7	4.9	4.0	1.7	2.0	2.0	2.7
14	3.6	5.0	5.9	4.9	4.6	12.1	4.9	3.2	1.8	2.0	2.0	2.5
15	3.4	6.0	20.3	4.8	4.3	10.0	4.1	3.1	2.3	2.1	2.1	2.3
16	3.2	7.0	17.1	5.7	4.1	6.8	4.5	3.2	2.7	2.1	2.0	2.3
17	3.0	6.3	10.5	12.1	4.0	5.2	6.3	3.7	2.4	2.1	1.9	2.3
18	3.0	5.4	8.3	9.6	3.9	4.1	4.7	4.0	2.2	2.1	1.9	2.0
19	3.4	4.7	6.1	6.5	3.8	3.6	4.1	3.3	2.2	3.8	1.9	2.9
20	3.8	4.2	5.4	7.9	3.7	3.4	3.6	3.0	2.0	4.5	1.9	2.9
21	3.6	6.0	5.0	9.4	3.6	3.2	3.3	2.8	1.9	4.0	1.9	2.7
22	3.2	7.2	4.8	11.5	3.6	3.0	3.0	2.9	1.8	3.2	1.9	2.6
23	3.0	6.7	4.7	12.7	3.5	2.9	2.9	4.7	6.3	2.9	1.9	2.4
24	2.9	5.3	5.6	8.8	3.4	2.7	2.9	3.0	6.0	2.5	1.9	6.0
25	2.9	9.2	8.7	7.2	3.3	3.0	2.7	3.2	4.5	2.3	1.8	5.3
26	2.8	7.8	6.8	5.6	3.3	4.1	3.4	3.4	3.8	2.2	1.8	4.3
27	2.8	7.3	5.8	5.2	3.2	5.0	2.9	3.0	3.0	2.2	1.8	4.0
28	3.7	6.0	5.4	6.1	3.2	4.4	2.6	2.9	2.5	2.0	1.8	3.8
29	17.5	5.3	12.4	7.6	3.2	4.0	2.5	2.5	2.0	2.0	1.9	3.6
30	15.6	.....	11.9	6.8	3.4	3.6	2.3	2.3	2.6	1.9	1.9	3.4
31	9.6	.....	9.3	.....	3.5	.....	2.2	2.2	.....	2.0	.....	3.4

Daily gage height, in feet, of Tallapoosa River at Sturdevant, Ala.—Cont'd.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1913												
1	3.4	6.0	7.3	5.1	3.1	2.4	3.2	2.0	2.3	4.9	1.6	1.8
2	3.2	4.7	5.6	4.8	3.0	2.3	2.8	2.7	2.3	3.6	1.5	3.0
3	3.5	6.3	4.7	4.5	3.0	3.0	2.2	3.4	1.6	2.5	1.45	3.0
4	3.7	3.3	4.1	4.5	3.0	4.1	2.0	2.9	1.8	2.0	1.45	3.0
5	3.6	6.8	4.1	4.3	2.9	3.0	2.0	2.2	2.2	1.6	1.4	2.3
6	3.3	5.5	4.0	4.2	2.8	4.0	1.7	1.9	2.0	1.35	1.35	2.2
7	3.0	4.5	3.9	4.1	2.8	6.8	1.7	1.7	2.4	1.15	1.45	2.5
8	3.1	4.1	3.8	4.1	2.8	5.5	1.6	1.5	1.7	1.15	1.35	2.3
9	3.4	3.9	3.7	4.0	2.9	4.8	1.4	2.0	1.3	1.05	1.45	2.2
10	3.2	3.8	3.6	4.0	2.9	4.0	1.4	1.8	1.15	1.05	1.45	2.0
11	3.0	3.7	9.2	4.5	2.9	3.4	2.0	1.7	2.9	1.0	1.4	1.9
12	4.1	4.0	7.7	4.3	2.8	3.0	4.0	2.0	2.2	.9	1.35	1.8
13	4.8	5.2	11.2	4.1	2.7	2.7	5.0	1.7	1.8	.85	1.35	1.7
14	4.3	4.6	12.5	4.0	2.7	2.5	3.6	1.35	1.4	.8	1.35	1.7
15	3.6	4.0	11.6	3.9	2.6	2.4	2.8	1.2	1.25	.75	1.35	1.9
16	3.2	3.8	9.0	3.8	2.5	2.3	2.7	2.3	1.25	.7	1.35	1.9
17	3.0	3.6	6.9	3.7	3.5	2.2	2.3	2.5	1.5	.7	1.35	1.8
18	3.0	3.5	5.8	3.6	3.4	2.2	2.0	1.9	1.45	1.2	1.45	1.8
19	3.4	3.4	5.2	3.5	3.0	2.1	1.7	1.6	1.35	3.1	1.45	1.7
20	3.4	4.0	5.0	3.5	2.8	2.0	1.7	1.3	1.5	3.4	1.45	1.7
21	3.2	4.3	7.3	3.4	2.7	1.9	3.0	1.15	1.7	2.8	1.45	1.7
22	3.0	5.5	8.6	3.3	2.6	2.0	2.3	1.0	2.1	2.4	1.35	1.7
23	3.0	4.7	6.7	3.2	4.0	2.2	2.7	1.25	1.7	2.5	1.35	1.7
24	3.5	4.1	5.6	3.2	5.1	2.1	3.0	2.0	1.6	3.9	1.35	1.7
25	6.7	3.9	5.0	3.2	4.3	2.0	3.1	1.7	1.4	3.4	1.25	2.0
26	5.6	3.7	4.9	3.4	3.6	1.8	2.9	1.1	1.2	2.9	1.25	2.2
27	13.3	5.7	11.8	3.5	3.0	1.7	2.5	1.3	1.1	2.4	1.25	2.2
28	13.3	7.4	9.2	3.5	2.7	1.7	2.2	1.0	.95	2.2	1.35	2.0
29	9.4	.....	7.8	3.4	2.5	1.8	2.9	.9	.95	1.8	1.45	3.6
30	7.1	.....	6.6	3.2	2.4	2.0	2.7	1.2	2.7	1.7	1.4	3.8
31	6.5	.....	6.0	.....	2.3	.....	2.2	2.2	.....	1.7	.....	3.8
1914												
1	3.2	3.6	3.1	6.5	2.7	1.35	0.65	2.3	1.4	0.95	0.9	3.6
2	2.9	3.3	3.0	5.6	2.7	1.35	.5	1.9	1.3	2.2	.9	3.0
3	3.2	2.8	2.9	4.3	2.5	1.25	2.1	1.7	1.5	2.3	.8	2.9
4	3.0	2.3	2.7	3.6	2.3	1.4	1.25	2.0	1.7	1.7	.8	4.5
5	2.9	2.2	2.5	3.1	2.3	2.0	.8	1.7	1.6	1.35	.8	6.5
6	2.7	2.9	2.4	2.9	2.2	2.9	1.6	2.0	1.15	1.25	.8	4.5
7	2.5	4.7	2.3	2.7	2.2	2.6	1.05	1.45	.95	1.35	.8	3.5
8	2.3	6.0	2.3	3.6	2.5	2.2	.85	1.2	.75	1.35	.8	3.0
9	2.2	4.7	2.2	4.2	2.2	2.2	.7	1.5	.6	1.2	.9	2.7
10	2.2	3.8	2.2	3.8	2.3	1.8	1.2	4.7	.55	1.05	.9	2.3
11	2.1	3.2	2.2	3.6	2.2	1.4	.9	3.8	.45	1.0	.8	2.2
12	2.0	2.8	3.6	3.2	2.0	2.5	1.5	2.9	.65	.85	.8	2.1
13	1.9	2.7	3.6	2.9	1.9	1.6	1.25	5.2	1.15	1.15	1.0	2.5
14	1.9	3.0	3.2	6.7	1.8	2.0	.95	4.9	2.0	2.2	1.25	3.0
15	1.8	2.9	2.9	8.9	1.7	1.9	.6	3.7	1.15	4.1	4.0	3.0
16	1.8	2.7	2.7	6.8	1.7	1.8	.45	2.7	.75	4.6	5.7	2.8
17	1.8	2.5	2.5	5.4	1.6	1.8	1.35	2.2	.6	3.4	4.7	2.5
18	1.8	2.3	2.3	4.2	1.7	2.0	4.7	1.9	.65	2.7	2.7	2.3
19	1.8	2.4	2.2	4.0	1.7	3.4	3.4	1.5	.95	2.0	2.3	2.2
20	1.8	2.7	2.4	5.0	1.7	2.3	2.9	1.3	.75	1.7	1.9	2.2
21	1.8	3.0	2.7	5.0	1.6	2.4	2.5	1.45	.85	1.45	1.7	2.2
22	1.9	2.9	2.7	4.2	1.6	2.0	2.0	1.3	2.0	1.3	1.45	2.3
23	1.8	2.7	2.7	3.6	1.5	1.6	1.25	1.45	1.6	1.1	1.3	2.3
24	1.9	2.5	2.5	3.2	1.45	1.3	.95	2.2	1.35	1.05	1.1	2.3
25	1.8	2.3	2.3	3.0	1.35	1.05	.8	1.7	1.1	1.0	1.0	3.1
26	2.2	2.5	2.4	2.9	1.35	.8	.8	1.4	1.0	1.0	1.05	4.7
27	2.2	2.7	2.4	2.7	1.25	.6	.8	2.6	1.0	.95	1.3	4.9
28	2.1	3.0	2.4	2.5	1.25	.6	.75	2.0	.85	.8	1.7	4.1
29	2.1	.....	2.5	2.5	1.15	.8	2.4	1.4	.75	.9	3.4	4.5
30	2.5	.....	2.5	2.7	1.15	.85	2.9	1.3	.75	.9	4.0	6.1
31	3.8	.....	4.9	.....	1.25	.....	3.0	1.8	.....	.9	.....	5.1

Daily gage height, in feet, of Tallapoosa River at Sturdevant, Ala.—Cont'd.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1915									
1	4.1	11.3	3.8	3.5	2.2	2.7	3.9	1.0	1.45
2	3.4	12.7	3.6	3.4	2.1	3.1	9.7	.95	1.35
3	3.0	9.0	3.6	3.2	2.1	2.8	7.9	1.35	1.05
4	2.9	7.8	3.6	3.0	2.0	2.5	5.3	1.7	1.05
5	2.7	5.8	6.8	3.0	2.0	2.2	3.0	1.1	13.3
6	4.5	5.0	6.3	2.9	2.0	2.1	11.5	1.0	7.0
7	7.8	4.6	5.4	2.9	2.3	2.1	4.9	1.0	5.9
8	6.2	4.2	4.7	2.8	7.9	2.8	3.8	.9	3.6
9	4.7	4.0	4.2	2.8	9.2	2.2	4.9	.9	2.5
10	4.1	3.8	4.0	2.8	6.3	1.8	7.2	.9	2.1
11	4.0	3.6	3.8	2.7	4.1	1.7	6.7	3.8	1.8
12	5.0	3.5	3.7	2.6	4.4	1.7	4.3	3.2	1.6
13	4.5	3.4	3.6	2.6	4.0	1.8	3.2	2.4	1.45
14	4.0	3.6	3.5	2.6	3.6	2.0	2.8	2.1	1.45
15	3.5	6.1	3.4	2.5	3.2	2.2	2.5	1.8	1.6
16	3.3	5.9	3.4	2.5	3.0	2.0	3.0	1.6	1.35
17	6.3	5.1	3.4	2.5	2.6	1.8	2.7	1.4	1.7
18	7.8	4.3	3.3	2.5	2.5	2.2	2.3	1.25	1.4
19	7.6	4.0	3.2	2.5	2.3	1.8	2.0	2.0	1.3
20	6.2	3.8	3.2	2.4	2.2	1.7	1.8	3.8	1.25
21	4.9	3.6	3.3	2.4	2.2	1.45	1.8	3.0	1.15
22	4.1	3.5	3.2	2.3	2.1	1.35	1.6	2.6	1.05
23	4.2	3.7	3.2	2.3	2.1	1.15	1.5	2.2	1.0
24	8.1	5.6	3.1	2.3	2.2	1.05	1.5	2.2	.95
25	7.6	6.1	3.0	2.2	2.1	1.05	1.45	3.0	.8
26	6.5	5.4	3.0	2.5	2.1	1.1	1.35	2.5	.7
27	5.5	4.5	3.0	2.3	2.6	1.3	1.25	1.6	.6
28	4.7	4.0	3.0	2.5	5.2	1.45	1.15	1.4	.6
29	4.1	.....	3.0	2.3	4.1	3.6	1.05	1.25	.55
30	3.8	.....	3.0	2.2	3.5	2.9	1.0	1.45	2.3
31	3.6	.....	3.4	.....	2.9	.....	1.0	1.35	.....

Note.—At present all stream flow computations by the United States Geological Survey are prepared for the climatic year ending September 30, the year 1916 will begin with October 1, 1915, thus including three months of 1915.

Rating table for Tallapoosa River at Sturdevant, Ala., for 1900, 1901 and 1902.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
0.6	555	2.6	2,520	4.4	5,310	7.0	9,340
.8	660	2.8	2,830	4.6	5,620	8.0	10,890
1.0	775	3.0	3,140	4.8	5,930	9.0	12,440
1.2	910	3.2	3,450	5.0	6,240	10.0	13,990
1.4	1,055	3.4	3,760	5.2	6,550	11.0	15,540
1.6	1,220	3.6	4,070	5.4	6,860	12.0	17,090
1.8	1,410	3.8	4,380	5.6	7,170	13.0	18,640
2.0	1,640	4.0	4,690	5.8	7,480	14.0	20,190
2.2	1,910	4.2	5,000	6.0	7,790	15.0	21,740
2.4	2,210						

Rating table for Tallapoosa River at Sturdevant, Ala., for 1903.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
0.90	765	2.30	2,025	3.70	4,120	6.00	7,570
1.00	810	2.40	2,170	3.80	4,270	6.20	7,870
1.10	859	2.50	2,320	3.90	4,420	6.40	8,170
1.20	912	2.60	2,470	4.00	4,570	6.60	8,470
1.30	970	2.70	2,620	4.20	4,870	6.80	8,770
1.40	1,036	2.80	2,770	4.40	5,170	7.00	9,070
1.50	1,110	2.90	2,920	4.60	5,470	8.00	10,570
1.60	1,194	3.00	3,070	4.80	5,770	9.00	12,070
1.70	1,288	3.10	3,220	5.00	6,070	10.00	13,570
1.80	1,390	3.20	3,370	5.20	6,370	11.00	15,070
1.90	1,500	3.30	3,520	5.40	6,670	12.00	16,570
2.00	1,620	3.40	3,670	5.60	6,970	13.00	18,070
2.10	1,750	3.50	3,820	5.80	7,270	14.00	19,570
2.20	1,885	3.60	3,970				

Rating table for Tallapoosa River at Sturdevant, Ala., for 1904.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
—0.20	250	1.00	774	2.40	1,985	4.60	5,780
— .10	275	1.10	834	2.60	2,230	4.80	6,250
.00	305	1.20	897	2.80	2,495	5.00	6,740
.10	339	1.30	963	3.00	2,780	5.20	7,240
.20	377	1.40	1,032	3.20	3,085	5.40	7,760
.30	418	1.50	1,105	3.40	3,410	5.60	8,300
.40	462	1.60	1,182	3.60	3,755	5.80	8,860
.50	509	1.70	1,264	3.80	4,120	6.00	9,430
.60	558	1.80	1,352	4.00	4,500	7.00	12,380
.70	609	1.90	1,446	4.20	4,900	8.00	15,480
.80	662	2.00	1,545	4.40	5,330	9.00	18,690
.90	717	2.20	1,757				

Rating table for Tallapoosa River at Sturdevant, Ala., for 1905 and 1906.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
0.10	296	1.50	1,020	3.00	2,730	4.80	6,250
.20	334	1.60	1,100	3.10	2,880	5.00	6,760
.30	374	1.70	1,180	3.20	3,030	5.20	7,280
.40	416	1.80	1,270	3.30	3,190	5.40	7,800
.50	460	1.90	1,360	3.40	3,350	5.60	8,330
.60	506	2.00	1,460	3.50	3,520	5.80	8,880
.70	554	2.10	1,560	3.60	3,690	6.00	9,440
.80	604	2.20	1,670	3.70	3,870	6.20	10,000
.90	656	2.30	1,790	3.80	4,060	6.40	10,560
1.00	710	2.40	1,910	3.90	4,250	6.60	11,140
1.10	766	2.50	2,040	4.00	4,450	6.80	11,740
1.20	824	2.60	2,170	4.20	4,870	7.00	12,350
1.30	885	2.70	2,300	4.40	5,310	7.20	12,990
1.40	950	2.80	2,440	4.60	5,770	7.40	13,630
		2.90	2,580				

The above table is based on discharge measurements made during 1904-6. It is well defined between gage heights 0.4 foot and 10 feet. Above gage height 7 feet the rating curve is a tangent, the difference being 320 per tenth.

Rating table for Tallapoosa River at Sturdevant, Ala., for 1907 and 1908.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
0.50	480	2.00	1,560	3.50	3,600	5.80	8,880
.60	530	2.10	1,670	3.60	3,770	6.00	9,440
.70	580	2.20	1,780	3.70	3,950	6.20	10,000
.80	635	2.30	1,900	3.80	4,130	6.40	10,560
.90	690	2.40	2,020	3.90	4,320	6.60	11,140
1.00	750	2.50	2,140	4.00	4,510	6.80	11,740
1.10	815	2.60	2,270	4.20	4,910	7.00	12,350
1.20	880	2.70	2,400	4.40	5,330	8.00	15,550
1.30	950	2.80	2,530	4.60	5,770	9.00	18,750
1.40	1,020	2.90	2,670	4.80	6,250	10.00	21,950
1.50	1,100	3.00	2,810	5.00	6,760	11.00	25,150
1.60	1,180	3.10	2,960	5.20	7,280	12.00	28,350
1.70	1,270	3.20	3,110	5.40	7,800	13.00	31,550
1.80	1,360	3.30	3,270	5.60	8,330	14.00	34,750
1.90	1,460	3.40	3,430				

Note.—The above table is not applicable for obstructed-channel conditions. It is based on over 30 discharge measurements made during 1900-1908 and is well defined below gage height 10 feet. Above gage height 7 feet the rating curve is a tangent, the difference being 320 per tenth.

Daily discharge, in second-feet, of Tallapoosa River, at Sturdevant, Ala.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1909												
1	1,720	1,320	3,600	4,320	16,800	3,600	3,190	7,540	2,880	1,180	1,020	1,270
2	1,670	1,320	3,270	4,130	15,200	4,510	3,190	4,710	4,320	1,180	1,100	1,270
3	1,620	1,360	3,270	3,950	13,300	6,250	2,880	29,300	4,510	1,100	1,320	1,180
4	1,510	1,320	3,360	3,770	7,800	8,880	2,530	27,400	2,740	1,060	1,140	1,180
5	1,620	1,270	3,270	3,600	6,500	8,330	2,270	14,900	1,720	1,020	1,060	1,180
6	2,740	4,710	3,040	3,600	5,120	7,020	2,140	10,800	1,560	985	1,060	1,180
7	2,880	5,770	4,420	3,770	4,510	6,250	2,020	9,720	1,560	985	1,060	2,960
8	3,270	3,960	14,300	4,710	4,220	4,910	2,020	7,800	2,020	985	1,060	7,800
9	2,740	2,880	8,330	5,550	3,950	3,480	4,710	4,910	2,270	985	1,020	5,550
10	2,020	23,600	65,300	4,710	5,770	3,270	7,020	3,960	1,560	985	1,060	4,220
11	1,720	17,800	31,900	4,320	4,910	4,710	6,250	3,770	1,560	950	1,060	2,880
12	1,620	9,440	28,700	3,770	4,710	5,120	4,710	3,350	2,060	1,020	1,060	2,530
13	1,620	6,010	50,800	4,710	3,770	4,130	5,770	4,710	1,720	950	1,060	7,800
14	1,780	14,900	37,000	5,770	3,430	3,770	7,800	6,680	1,460	915	1,060	7,280
15	1,960	14,300	30,000	5,330	3,270	3,430	5,330	3,110	1,410	985	1,020	5,550
16	2,140	21,600	22,900	4,510	3,190	4,710	6,010	3,110	1,460	2,530	1,060	4,220
17	2,740	15,200	14,000	3,950	3,770	3,950	5,770	4,220	2,140	2,670	1,460	3,110
18	3,040	9,160	7,280	3,430	3,430	3,430	3,950	3,430	1,840	1,900	1,840	2,460
19	3,430	6,760	6,500	3,270	3,430	3,270	4,130	2,530	1,670	1,510	1,460	2,400
20	2,530	6,010	7,280	3,190	5,770	3,770	5,330	2,200	1,460	1,270	1,360	2,460
21	2,200	5,120	32,500	3,040	4,510	4,910	3,960	2,020	1,670	1,180	1,270	2,340
22	1,960	14,900	20,000	2,880	4,510	8,330	2,600	1,900	3,520	1,510	1,180	2,200
23	1,840	9,440	12,400	6,760	4,130	6,250	2,530	1,720	3,190	2,020	3,270	2,020
24	1,720	11,700	8,600	14,000	3,430	5,330	5,770	1,620	2,530	1,720	4,040	1,960
25	1,720	8,880	7,800	12,400	4,320	5,550	3,600	1,620	2,400	1,510	2,960	3,270
26	1,670	6,760	7,280	16,200	4,710	4,320	2,530	1,510	1,840	1,360	2,020	3,350
27	1,620	4,910	6,760	16,800	7,020	6,010	2,020	1,460	1,560	1,180	1,720	3,660
28	1,510	4,130	5,770	17,500	11,400	4,710	1,960	1,460	1,460	1,100	1,410	3,190
29	1,510	.....	7,280	11,100	5,330	3,600	1,840	1,360	1,320	1,100	1,270	2,530
30	1,460	.....	5,550	7,540	4,130	3,600	3,190	1,560	1,140	1,100	1,270	2,140
31	1,360	.....	4,710	.....	4,510	.....	3,950	2,900	.....	1,060	.....	1,960

Daily discharge, in second-feet, of Tallapoosa River, at Sturdevant, Ala.—Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1910												
1	1,840	3,190	15,900	2,140	1,840	1,460	42,800	1,510	1,020	1,840	782	1,220
2	1,840	2,740	14,900	2,140	1,720	1,410	35,400	1,460	1,140	1,180	782	1,020
3	1,840	3,860	10,600	2,140	1,620	1,320	28,000	1,360	1,360	1,020	880	985
4	1,840	4,130	7,020	2,140	1,620	1,220	20,000	1,270	2,270	880	848	1,060
5	1,840	3,270	5,120	2,200	1,620	1,270	12,400	2,810	2,530	815	950	4,320
6	1,960	2,960	4,320	2,530	1,620	1,410	7,540	6,010	1,460	848	1,100	6,760
7	3,190	2,600	3,950	2,530	1,560	1,510	6,760	9,720	1,220	2,020	1,180	5,120
8	4,510	2,460	3,600	2,340	1,900	1,460	7,280	12,400	1,100	3,190	1,100	3,270
9	3,950	2,400	3,430	2,020	2,340	1,460	6,010	6,010	1,220	2,740	1,020	2,340
10	3,040	2,270	3,270	1,960	3,430	2,810	4,710	4,220	1,460	2,530	985	1,900
11	2,530	2,880	3,680	1,960	2,530	3,270	4,510	3,520	1,510	2,200	915	1,670
12	2,270	5,330	3,770	2,020	1,960	3,950	4,320	5,330	1,510	1,620	915	1,460
13	2,080	5,120	3,520	2,960	1,670	3,190	4,220	4,710	1,360	1,320	880	1,460
14	2,020	5,120	3,270	3,190	1,560	4,130	3,350	2,600	1,100	1,140	880	1,360
15	1,960	3,430	2,960	2,530	1,510	3,860	2,600	2,140	1,100	1,020	915	1,270
16	1,960	2,960	2,810	2,460	1,460	2,740	2,200	1,900	1,020	1,020	848	1,270
17	1,840	3,770	2,740	6,500	1,460	2,080	2,740	1,720	915	915	880	1,270
18	1,840	10,800	2,600	5,550	2,140	1,900	2,530	1,620	782	880	915	1,360
19	1,960	12,400	2,810	3,950	2,270	1,560	2,340	1,620	726	848	950	1,460
20	2,080	9,440	3,110	3,190	2,340	1,460	2,270	1,960	782	782	1,060	1,460
21	2,960	5,550	2,810	2,530	3,680	2,670	2,080	1,960	726	782	985	1,360
22	3,270	7,540	2,670	2,340	3,770	3,270	2,020	1,620	720	750	985	1,270
23	3,270	6,500	2,600	2,270	5,550	2,600	2,080	1,320	985	714	985	1,270
24	3,270	6,250	2,600	2,140	4,910	2,200	2,080	1,270	880	662	915	1,460
25	3,270	7,280	2,530	2,020	5,120	1,900	2,400	1,270	726	679	950	1,510
26	3,190	5,770	2,530	2,020	4,130	1,900	2,270	1,270	646	640	985	1,460
27	2,880	4,710	2,460	1,960	3,110	1,960	2,270	1,180	591	738	950	1,460
28	3,600	6,250	2,400	2,020	2,400	1,510	1,900	1,180	635	880	985	1,360
29	5,120	.....	2,340	2,020	2,020	2,530	1,670	1,100	1,460	915	2,080	1,360
30	4,710	.....	2,270	2,020	1,720	3,880	1,720	1,060	3,270	880	1,510	2,600
31	3,860	.....	2,270	.....	1,510	.....	1,670	1,060	.....	848	.....	3,270
1911												
1	2,530	1,720	2,270	2,270	2,600	1,460	960	1,100	782	426	1,360	1,720
2	6,760	1,620	2,270	2,080	2,880	1,320	848	3,880	815	386	1,020	1,460
3	29,300	1,620	2,400	2,020	2,740	1,180	815	7,800	750	378	985	1,300
4	25,200	1,720	2,270	2,340	2,530	1,100	848	7,020	750	358	950	1,270
5	14,300	1,960	2,140	15,200	2,200	1,140	1,220	5,550	1,360	343	880	1,180
6	8,330	1,840	2,020	16,500	2,020	1,670	3,770	2,810	1,460	343	1,020	1,180
7	5,120	3,110	2,020	10,300	2,020	1,670	1,780	2,020	1,780	329	2,020	1,140
8	3,770	2,680	1,960	7,280	1,960	1,360	1,180	1,620	1,460	312	3,270	1,100
9	3,270	4,510	1,960	11,400	1,840	1,140	985	1,360	915	312	10,800	1,100
10	3,040	7,280	1,960	14,000	1,720	1,180	1,100	1,270	848	318	8,330	1,100
11	2,670	6,500	2,020	11,400	1,720	1,140	1,410	1,180	750	386	4,710	1,100
12	2,530	8,880	1,960	6,760	1,620	1,020	1,720	1,360	660	586	3,110	1,100
13	2,460	8,330	1,900	5,550	1,620	1,020	2,020	1,220	640	950	2,400	1,100
14	2,270	5,550	1,840	4,710	1,510	960	2,670	2,080	580	750	1,960	1,100
15	2,140	4,420	1,720	4,220	1,460	880	3,110	2,080	540	679	1,670	1,180
16	2,020	3,770	1,720	3,600	1,460	750	7,540	1,460	510	657	1,460	1,620
17	2,020	3,520	1,620	3,270	1,360	750	12,000	3,520	500	1,900	1,410	1,720
18	1,960	3,110	1,620	3,110	1,460	915	10,800	5,120	500	2,080	1,410	1,510
19	1,960	2,810	1,840	3,190	1,360	1,140	10,600	3,520	510	3,270	1,780	1,460
20	1,960	4,420	2,810	3,040	1,460	1,220	5,550	2,530	608	2,080	2,080	2,880
21	1,840	4,910	3,040	3,770	3,270	1,720	3,960	1,720	915	1,320	1,900	6,010
22	1,840	4,220	2,690	3,190	3,600	2,460	3,350	1,360	815	1,060	1,510	9,440
23	1,840	3,430	2,270	2,810	6,760	2,460	2,770	1,180	1,100	815	1,360	11,700
24	1,780	2,960	2,020	2,530	7,020	1,780	2,880	1,100	985	750	1,270	9,160
25	1,720	2,670	1,840	2,400	3,430	1,410	3,860	1,020	782	720	1,320	6,010
26	1,620	2,530	2,960	2,340	2,460	1,220	3,600	915	660	657	1,460	4,710
27	1,720	2,400	5,120	2,340	1,960	2,020	2,340	880	662	679	1,360	7,280
28	1,720	2,270	4,710	2,350	1,720	1,720	1,340	848	560	720	1,960	6,760
29	1,720	.....	3,520	3,040	1,560	1,620	1,510	985	520	915	2,200	4,710
30	1,840	.....	2,880	2,400	1,410	1,180	1,270	815	520	815	1,900	4,710
31	1,840	.....	2,460	.....	1,300	.....	1,140	782	.....	1,060	.....	7,540

Daily discharge, in second-feet, of Tallapoosa River, at Sturdevant, Ala. —Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1912												
1	6,760	11,400	6,260	17,200	9,720	3,430	3,110	1,900	1,670	1,900	1,560	1,460
2	6,010	8,330	5,550	9,720	7,800	3,110	4,510	1,780	1,560	1,780	1,400	1,460
3	5,120	5,120	5,550	7,800	6,500	2,270	3,270	2,020	1,560	1,780	1,460	1,560
4	4,510	4,510	6,560	6,760	6,250	2,810	4,320	3,110	1,460	1,780	1,360	2,960
5	4,130	4,320	8,330	6,500	7,280	4,510	4,710	2,810	1,460	4,320	1,360	5,330
6	3,770	4,130	12,700	6,010	5,550	4,510	4,510	2,400	1,460	8,880	1,460	4,910
7	5,120	3,770	11,100	5,770	8,880	5,550	5,120	8,330	1,360	4,510	1,360	4,130
8	21,300	3,600	8,880	5,770	12,700	4,710	3,770	6,760	1,360	2,810	1,360	3,770
9	13,000	3,430	8,330	5,550	10,800	3,950	7,280	3,060	1,270	2,028	1,270	3,270
10	9,100	3,770	7,020	5,330	7,800	3,270	7,280	9,720	1,180	1,780	1,270	3,110
11	6,500	6,010	6,760	5,550	6,760	2,810	6,560	10,800	1,180	1,670	1,360	2,810
12	5,120	5,330	8,880	5,120	7,800	2,670	4,510	7,020	1,180	1,670	1,460	2,670
13	4,510	4,710	7,280	9,440	6,760	3,950	6,500	4,510	1,270	1,560	1,560	2,400
14	3,770	6,760	9,160	6,500	5,770	21,900	6,560	3,110	1,360	1,560	1,560	2,140
15	3,430	9,440	54,400	6,250	5,120	22,000	4,710	2,960	1,900	1,670	1,670	1,900
16	3,110	12,400	44,700	8,600	4,710	11,700	5,550	3,110	2,460	1,670	1,560	1,900
17	2,810	10,300	23,600	28,700	4,510	7,280	10,300	3,960	2,020	1,670	1,460	1,900
18	2,810	7,800	16,500	20,700	4,320	4,710	6,010	4,510	1,780	1,670	1,460	2,810
19	3,430	6,010	9,720	11,700	4,130	3,770	4,710	3,270	1,780	4,130	1,460	2,670
20	4,130	4,910	7,800	15,200	3,960	3,430	3,770	2,810	1,560	5,560	1,460	2,670
21	3,770	9,440	6,760	20,000	3,770	3,110	3,270	2,530	1,460	4,510	1,460	2,400
22	3,110	13,000	6,250	28,800	3,770	2,810	2,810	2,670	1,360	3,110	1,460	2,270
23	2,810	11,400	6,010	30,600	3,600	2,670	2,670	6,010	11,700	2,670	1,460	3,430
24	2,670	16,500	17,500	18,100	3,430	2,400	2,670	2,810	9,440	2,140	1,460	9,440
25	2,670	19,400	17,800	13,000	3,270	2,810	2,400	3,110	5,550	1,900	1,360	7,540
26	2,530	14,900	11,700	8,880	3,270	4,710	3,430	3,430	4,120	1,780	1,360	5,120
27	2,530	13,300	8,880	7,280	3,110	6,760	2,670	2,810	2,810	1,780	1,300	4,510
28	3,950	9,440	7,800	9,720	3,110	5,330	2,270	2,670	2,140	1,560	1,360	4,130
29	46,000	7,540	29,600	14,300	3,110	4,510	2,140	2,140	2,810	1,560	1,460	3,770
30	39,900	.....	28,000	11,700	3,430	3,770	1,900	1,900	2,270	1,460	1,460	3,430
31	20,700	.....	21,300	.....	3,600	.....	1,780	1,780	.....	1,500	.....	3,430
1913												
1	3,430	9,440	13,300	7,020	2,960	2,020	3,110	1,560	1,900	6,500	1,180	1,360
2	3,110	6,010	8,330	6,250	2,810	1,900	2,530	2,400	1,900	3,770	1,100	2,810
3	3,600	10,300	6,010	5,550	2,810	2,810	1,780	3,430	1,180	2,140	1,060	2,810
4	3,950	16,500	4,710	5,550	2,810	4,710	1,560	2,670	1,360	1,560	1,060	2,810
5	3,770	11,700	4,710	5,120	2,670	2,810	1,560	1,780	1,780	1,180	1,020	1,900
6	3,270	8,060	4,510	4,910	2,530	4,510	1,270	1,460	1,560	985	985	1,790
7	2,810	5,550	4,320	4,710	2,530	11,700	1,270	1,270	2,020	848	1,060	2,140
8	2,960	4,710	4,130	4,710	2,530	8,060	1,180	1,180	1,270	848	985	1,900
9	3,430	4,320	3,950	4,510	2,670	6,250	1,070	1,560	950	782	1,060	1,790
10	3,110	4,130	17,500	4,510	2,670	4,510	1,020	1,360	848	782	1,060	1,560
11	2,810	3,950	19,400	5,550	2,670	3,430	1,560	1,270	2,670	750	1,020	1,460
12	4,710	4,510	14,600	5,120	2,530	2,810	4,510	1,560	1,780	690	985	1,360
13	6,250	7,280	25,800	4,710	2,400	2,400	6,760	1,270	1,360	662	985	1,270
14	5,120	5,770	30,000	4,510	2,400	2,140	3,770	985	1,020	635	985	1,270
15	3,770	4,510	27,100	4,320	2,270	2,020	2,530	880	915	608	985	1,460
16	3,110	4,130	18,800	4,130	2,140	1,900	2,400	1,900	915	580	985	1,460
17	2,810	3,770	12,000	3,950	3,600	1,780	1,900	2,140	1,100	580	985	1,360
18	2,810	3,600	8,880	3,770	3,430	1,780	1,560	1,460	1,060	880	1,060	1,360
19	3,430	3,430	7,280	3,600	2,810	1,670	1,270	1,180	985	2,960	1,060	1,270
20	3,430	4,510	6,760	3,600	2,530	1,560	1,270	950	1,100	3,430	1,060	1,270
21	3,110	5,120	13,300	3,430	2,400	1,460	2,810	848	1,270	2,530	1,060	1,270
22	2,810	8,060	17,500	3,270	2,270	1,560	1,900	750	1,670	2,020	985	1,270
23	2,810	6,010	11,400	3,110	4,510	1,780	2,400	915	1,270	2,140	985	1,270
24	3,600	4,710	8,330	3,110	7,020	1,670	2,810	1,560	1,180	4,320	985	1,270
25	11,400	4,320	6,760	3,110	5,120	1,560	2,960	1,270	1,020	3,430	915	1,560
26	8,330	3,950	6,500	3,430	3,770	1,360	2,670	815	880	2,670	915	1,780
27	32,500	8,600	27,700	3,600	2,810	1,270	2,140	950	815	2,020	915	1,780
28	32,500	13,600	19,400	3,600	2,400	1,270	1,780	750	720	1,780	985	1,560
29	20,000	.....	14,900	3,430	2,140	1,360	2,670	690	720	1,360	1,060	3,770
30	12,700	.....	11,100	3,110	2,020	1,560	2,400	820	2,400	1,270	1,020	4,130
31	10,800	.....	9,440	.....	1,900	.....	1,780	1,780	.....	1,270	.....	4,130

NOTE—Daily discharge computed from a well-defined rating curve.
Note.—The daily discharges for 1914 and 1915 have not been computed.

Monthly discharge of Tallapoosa River at Sturdevant, Ala.

[Drainage area, 25,000 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Second-feet per square mile.	Depth in inches.
1900.					
July 19–31	.....	.....	4,002	1.60	0.77
August	5,155	1,520	2,533	1.01	1.16
September	17,090	1,220	3,602	1.44	1.61
October	9,805	1,220	3,398	1.36	1.57
November	7,635	1,910	3,275	1.31	1.46
December	10,115	2,520	4,330	1.73	1.99
1901.					
January	20,345	4,690	7,035	2.81	3.24
February	18,485	4,535	6,468	2.59	2.70
March	12,285	3,450	5,315	2.13	2.46
April	12,440	4,535	6,772	2.61	2.91
May	10,270	3,140	4,885	1.95	2.25
June	7,170	2,365	4,452	1.78	1.99
July	5,155	1,640	2,795	1.12	1.29
August	16,625	1,640	4,793	1.92	2.21
September	9,340	1,640	2,852	1.14	1.27
October	7,790	1,220	1,946	.78	.90
November	2,055	1,220	1,502	.70	.78
December	24,150	1,310	4,670	1.87	2.16
The year	24,150	1,220	4,457	1.78	24.16
1902.					
January	15,695	2,520	4,550	1.82	2.10
February	23,245	3,760	6,288	2.52	2.62
March	23,245	5,310	9,708	3.88	4.47
April	10,890	3,914	5,677	2.27	2.53
May	5,000	1,910	3,240	1.30	1.50
June	4,070	840	1,544	.62	.69
July	2,830	660	1,004	40	.46
August	7,790	470	1,298	.52	.60
September	4,845	510	1,255	.50	56
October	2,985	715	1,180	.47	.54
November	6,550	660	2,011	.80	.89
December	10,890	1,640	4,412	1.76	2.03
The year	23,245	470	3,514	1.40	18.99

Monthly discharge of Tallapoosa River at Sturdevant, Ala.—Continued.

[Drainage area, 2,500 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-feet per square mile.	Depth in inches.
1903					
January	4,120	2,320	3,128	1.25	1.44
February	27,370	2,470	9,841	3.94	4.10
March	15,070	5,320	8,035	3.21	3.70
April	14,470	4,420	6,988	2.79	3.11
May	19,120	3,370	5,688	2.27	2.62
June	10,720	2,770	4,845	1.94	2.16
July	7,270	1,500	3,204	1.28	1.48
August	6,970	1,110	2,771	1.11	1.28
September	3,370	765	1,271	.51	.57
October	2,620	765	939	.37	.43
November	1,750	912	1,285	.51	.57
December	2,920	1,036	1,410	.56	.65
The year	27,370	765	4,117	1.645	22.11
1904					
January	7,760	1,264	2,500	1.00	1.15
February	8,860	2,230	4,089	1.64	1.77
March	6,490	1,757	2,749	1.10	1.27
April	3,410	1,352	1,757	.703	.784
May	2,495	558	991	.396	.456
June	5,330	377	1,084	.434	.484
July	2,780	418	1,086	.434	.500
August	34,200	1,105	5,855	2.34	2.70
September	2,230	509	850	.340	.379
October	509	250	314	.126	.145
November	1,545	275	722	.290	.324
December	6,250	717	1,562	.625	.721
The year	34,200	250	1,966	.786	10.68
1905.					
January	40,510	1,100	4,977	1.99	2.29
February	20,350	1,850	6,897	2.76	2.87
March	10,560	2,440	3,647	1.46	1.68
April	4,250	2,040	2,694	1.08	1.20
May	4,450	1,460	2,744	1.10	1.27
June	2,730	885	1,459	.584	.652
July	4,660	710	1,540	.616	.710
August	13,950	554	2,754	1.10	1.27
September	1,790	296	677	.271	.302
October	1,910	416	929	.372	.429
November	1,460	656	889	.356	.397
December	22,910	950	7,411	2.96	3.41
The year	40,510	296	3,052	1.22	16.48
1906					
January	29,600	2,730	6,770	2.71	3.12
February	4,060	2,370	3,020	1.21	1.26
March	59,100	2,440	12,700	5.08	5.86
April	7,800	2,660	4,010	1.60	1.78
May	11,400	1,910	3,160	1.26	1.45
June	16,500	1,460	3,230	1.29	1.44
July	17,200	1,460	6,140	2.46	2.84
August	20,000	2,440	5,310	2.12	2.44
September	19,100	2,300	5,540	2.22	2.48
October	20,000	2,300	6,140	2.46	2.84
November	20,700	2,170	4,000	1.60	1.78
December	21,000	2,440	4,660	1.86	2.14
The year	59,100	1,460	5,390	2.16	29.48

Monthly discharge of Tallapoosa River at Sturdevant, Ala.—Continued.

[Drainage area, 2,500 square miles.]

Month.	Discharge in second-feet.				Run-off (depth in inches on drainage area).
	Maximum.	Minimum.	Mean.	Per square mile.	
1907.					
January	22,000	3,040	4,940	1.98	2.28
February	27,100	3,430	8,030	3.21	3.34
March	24,500	3,040	6,280	2.51	2.89
April	12,700	2,600	5,600	2.24	2.50
May	21,000	3,000	6,810	2.72	3.14
June	5,550	1,900	3,110	1.24	1.38
July	4,220	1,270	2,300	.920	1.06
August	4,130	915	1,900	.064	.77
September	4,420	635	1,270	.508	.57
October	2,020	690	912	.365	.42
November	15,000	750	3,140	1.26	1.41
December	14,000	1,720	4,840	1.94	2.24
The year	27,100	635	4,070	1.63	22.00
1908.					
January	11,700	2,600	4,510	1.80	2.08
February	33,200	4,130	9,900	3.96	4.27
March	20,700	3,040	5,340	2.14	2.47
April	16,200	2,740	5,310	2.12	2.36
May	7,020	2,600	3,990	1.60	1.84
June	3,950	1,270	2,220	.888	.99
July	3,770	1,100	1,790	.716	.83
August	4,710	750	1,800	.720	.83
September	5,120	530	1,080	.432	.48
October	1,510	505	715	.286	.33
November	6,010	880	1,370	.548	.61
December	12,000	985	2,690	1.08	1.24
The year	33,200	505	3,390	1.35	18.33
1909					
January	3,430	1,360	2,030	0.812	0.94
February	23,600	1,270	8,380	3.35	3.49
March	50,800	3,040	14,400	5.76	6.64
April	17,500	2,880	6,420	2.57	2.87
May	16,800	3,190	5,830	2.33	2.69
June	8,880	3,270	4,980	1.99	2.22
July	7,800	1,840	3,900	1.56	1.80
August	29,300	1,360	5,620	2.25	2.59
September	4,510	1,140	2,090	.836	.93
October	2,670	915	1,290	.516	.59
November	4,040	1,020	1,460	.584	.65
December	7,800	1,180	3,140	1.26	1.45
The year	50,800	915	4,960	1.98	26.86
1910					
January	5,120	1,840	2,770	1.11	1.28
February	12,400	2,270	5,030	2.01	2.09
March	15,900	2,270	4,220	1.69	1.95
April	6,500	1,960	2,590	1.04	1.16
May	5,550	1,460	2,450	.980	1.13
June	8,880	1,220	2,430	.972	1.08
July	42,800	1,670	7,220	2.89	3.33
August	12,400	1,060	2,840	1.14	1.31
September	3,270	591	1,210	.484	.54
October	3,190	640	1,200	.480	.55
November	2,080	782	1,000	.400	.45
December	6,760	985	1,950	.780	.90
The year	42,800	591	2,910	1.16	15.77

Monthly discharge of Tallapoosa River at Sturdevant, Ala.—Continued.

[Drainage area, 2,460 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-feet per square mile.	Depth in inches.
1911					
January	29,300	1,620	4,610	1.87	2.16
February	8,880	1,620	3,780	1.54	1.60
March	5,120	1,620	2,380	.967	1.11
April	16,500	2,020	5,350	2.17	2.42
May	7,020	1,360	2,330	.948	1.09
June	2,460	750	1,350	.549	.61
July	12,000	815	3,240	1.32	1.52
August	8,880	782	2,420	.984	1.13
September	1,780	500	810	.329	.37
October	2,270	312	850	.345	.40
November	10,800	880	2,300	.935	1.04
December	11,700	1,100	3,390	1.38	1.59
The year	29,300	312	2,780	1.11	15.04
1912					
January	46,000	2,530	8,040	3.22	3.71
February	19,400	3,430	8,310	3.32	3.58
March	54,400	5,550	13,900	5.56	6.41
April	30,600	5,120	11,800	4.72	5.27
May	12,700	3,110	5,630	2.25	2.59
June	31,900	2,400	5,740	2.30	2.57
July	10,300	1,780	4,350	1.74	2.01
August	10,800	1,780	4,030	1.61	1.86
September	11,700	1,180	2,480	.992	1.11
October	8,880	1,460	2,530	1.01	1.16
November	1,670	1,270	1,440	.576	.64
December	9,440	1,460	3,400	1.36	1.57
The year	54,400	1,180	5,960	2.38	32.48
1913					
January	32,500	2,810	6,850	2.74	3.16
February	16,500	3,430	6,450	2.58	2.69
March	30,000	3,950	12,500	5.00	5.76
April	7,020	3,110	4,310	1.72	1.92
May	7,020	1,900	2,910	1.16	1.34
June	11,700	1,270	2,850	1.14	1.27
July	6,760	1,020	2,260	.904	1.04
August	3,430	690	1,400	.560	.65
September	2,670	720	1,320	.528	.59
October	6,500	580	1,810	.724	.83
November	1,180	915	1,020	.408	.46
December	4,130	1,270	1,880	.752	.87
The year	32,500	580	3,790	1.52	20.58

TALLAPOOSA RIVER AT SUSANNA, ALA.

Location.—At McCarty's Ferry just below the mouth of Blue Creek.

Records available.—July 27, 1900, to March 30, 1901.

Drainage area.—2,610 square miles.

Gage.—Temporary vertical gage.

Channel.—Good for measurement.
Discharge measurement.—Made from boat.
Artificial control.—None.
Accuracy.—The low water rating is good, measurements could not be made at high stages.

Discharge measurements of Tallapoosa River near Susanna, Ala.

Date.	Gage height. Feet.	Discharge. Sec.-feet.
1900		
July 27	1.80	2,309
August 9	1.55	1,900
September 28	1.50	1,809
November 24	2.40	3,629
1901		
July 9	2.80	5,628
February 27	2.90	5,135

Daily gage height, in feet, of Tallapoosa River near Susanna, Ala.

Day.	1900						1901		
	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	.....	5.80	2.40	1.40	1.80	2.00	6.0	3.40	2.70
2	.....	4.00	3.80	1.40	1.70	2.00	6.0	3.45	2.60
3	.....	2.00	4.80	1.40	1.70	2.10	5.1	3.30	2.65
4	.....	1.80	4.20	1.35	1.65	2.20	4.5	11.50	2.70
5	.....	1.80	2.25	1.80	1.65	2.30	3.9	9.50	2.65
6	.....	2.10	1.50	2.80	1.65	2.50	3.5	6.50	2.60
7	.....	2.20	1.45	3.00	1.60	2.40	3.2	4.40	2.50
8	.....	1.70	1.45	2.50	1.60	2.40	3.0	4.30	2.40
9	.....	1.55	1.40	1.85	1.60	2.40	2.9	4.80	2.50
10	.....	1.50	1.35	1.80	1.60	2.30	2.8	4.90	2.70
11	.....	1.40	1.35	1.75	1.60	2.10	3.4	4.50	3.30
12	.....	1.40	1.35	1.70	1.55	2.00	13.5	4.00	3.10
13	.....	1.40	1.35	1.90	1.55	1.90	11.5	3.50	2.90
14	.....	1.40	1.30	2.40	1.60	3.90	8.0	3.04	2.60
15	.....	1.40	1.35	2.45	1.60	3.90	6.1	3.30	2.50
16	.....	1.90	11.70	2.40	1.60	2.80	4.5	3.20	2.40
17	.....	1.95	8.40	2.35	1.75	2.60	5.0	3.10	2.40
18	.....	1.95	4.80	2.30	1.75	2.50	4.5	3.10	2.40
19	.....	1.80	3.00	2.20	1.80	2.40	3.9	3.05	2.45
20	.....	1.75	2.50	2.10	1.85	4.50	3.4	3.00	3.00
21	.....	1.70	1.80	1.90	1.85	5.80	3.2	2.90	3.40
22	.....	1.70	1.80	1.70	1.90	4.50	3.1	2.85	2.90
23	.....	1.90	1.80	3.90	2.40	4.00	3.0	2.80	2.70
24	.....	2.00	1.70	6.00	2.40	4.00	3.1	2.90	3.30
25	.....	2.05	1.60	5.00	3.00	3.70	3.4	3.00	3.40
26	.....	2.50	1.50	4.30	4.90	3.20	3.1	3.00	3.60
27	1.80	2.15	1.50	4.10	4.20	2.80	3.2	2.90	7.40
28	1.90	2.00	1.50	2.30	3.90	2.70	3.1	2.80	6.90
29	1.80	1.90	1.45	2.20	3.00	2.60	3.0	.....	6.10
30	4.00	1.80	1.45	1.90	2.80	2.70	3.2	.....	4.10
31	6.80	2.25	.....	1.85	.....	2.90	3.3	.....	.....

Rating table for Tallapoosa River near Susanna, Ala., for 1900 and 1901.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
1.4	1,680	2.8	5,630	4.0	11,080	6.0	20,080
1.6	1,960	3.0	6,530	4.2	11,980	7.0	24,530
1.8	2,320	3.2	7,430	4.4	12,880	8.0	29,030
2.0	2,740	3.4	8,330	4.6	13,780	9.0	33,530
2.2	3,230	3.6	9,230	4.8	14,630	10.0	38,030
2.4	3,850	3.8	10,130	5.0	15,530	11.0	42,530
2.6	4,730						

Estimated monthly discharge of Tallapoosa River near Susanna, Ala.

[Drainage area, 2,610 square miles.]

Date.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-feet per square mile.	Depth in inches.
1900					
July 27 to 31	----------	----------	8,364	----------	----------
August	19,130	1,680	8,258	1.25	1.44
September	45,680	1,570	6,083	2.33	2.60
October	20,030	1,570	4,776	1.83	2.11
November	15,080	1,335	3,676	1.41	1.57
December	19,130	2,520	6,288	2.41	2.78
1901					
January	53,780	5,630	13,265	5.08	5.86
February	44,780	5,630	11,803	4.33	4.51
March	26,330	3,850	7,546	2.89	3.31

TALLAPOOSA RIVER AT MILSTEAD, ALA.

Location.—At the Tallassee and Montgomery Railway bridge, one-fourth mile from Milstead, Ala.

Records available.—August 7, 1897, to December 31, 1901.

Drainage area.—3,840 square miles.

Gage.—Wire gage was attached to the railroad bridge. The datum remained the same as long as the records were used.

Channel.—Good channel and high banks.

Discharge measurements.—Made from the railroad bridge.

Artificial control.—The operation of the cotton mills at Tallassee has to some extent affected the low water flow at this station, and after the new dam was completed in 1902 the artificial control was so great that the station was discontinued.

Accuracy.—The low water records for this station have been affected by the artificial control of the flow by the water power at Tallassee, and for that reason, must be used with caution.

Discharge measurements of Tallapoosa River at Milstead, Ala.

Date.	Gage height. Feet.	Discharge. Sec.-feet.
1897		
May 8	6.20	7,333
July 15	1.95	1,692
August 7	2.42	2,292
September 4	1.60	1,271
November 23	1.20	677
December 16	3.58	4,210
1898		
January 19	2.13	1,889
February 19	2.20	2,045
March 18	2.56	2,646
April 26	5.83	6,648
May 17	1.55	1,059
June 22	3.05	3,421
July 7	1.62	1,262
August 5	13.67	15,295
September 3	2.76	3,010
November 29	5.16	5,477
1899		
April 17	6.34	7,444
April 18	5.63	6,853
May 17	2.80	3,000
June 26	2.05	1,847
September 9	1.36	1,016
November 8	1.25	972
December 18	2.66	2,344
1900		
February 23	9.20	9,956
March 5	6.70	7,088
December 3	2.95	3,031
1901		
February 12	10.70	11,759
March 13	5.55	5,644
October 29	1.70	1,588

Daily gage height, in feet, of Tallapoosa River at Milstead, Ala.

Day	Aug.	Sept.	Oct.	Nov.	Dec.	Day	Aug.	Sept.	Oct.	Nov.	Dec.
1897						1897					
1	.....	1.70	0.80	0.90	1.50	17	1.90	1.10	.80	1.20	2.80
2	.....	1.80	.80	1.00	1.50	18	2.20	1.00	.90	1.20	2.40
3	.....	1.60	.80	1.10	1.50	19	2.80	1.10	.90	1.20	2.10
4	.....	1.60	.70	1.10	1.60	20	9.70	1.10	.90	1.10	2.00
5	.....	1.60	.70	1.10	1.80	21	7.40	1.10	.80	1.20	1.90
6	.....	1.40	.70	1.10	2.00	22	8.50	1.00	.80	1.10	2.00
7	2.45	1.40	.70	1.10	2.10	23	5.80	1.00	.90	1.10	2.40
8	1.90	1.30	.60	1.10	2.00	24	3.40	1.00	.90	1.20	2.40
9	1.70	1.20	.70	1.20	1.90	25	2.90	1.00	.80	1.20	2.40
10	1.50	1.20	.70	1.20	1.90	26	2.80	1.00	.90	1.20	2.80
11	1.50	1.10	.70	1.30	1.90	27	2.30	1.00	.90	1.20	2.60
12	2.70	1.10	.70	1.30	2.00	28	2.00	.90	.90	1.60	2.50
13	2.20	1.10	.70	1.30	1.90	29	1.80	.90	.90	1.50	2.30
14	2.00	1.10	.80	1.30	5.50	30	1.70	.80	.90	1.50	2.20
15	1.80	1.40	.80	1.20	4.70	31	1.70	.....	.90	.....	2.40
16	1.60	1.20	.80	1.20	3.60						

Daily gage height, in feet, of Tallapoosa River at Milstead, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1898												
1	2.90	2.30	1.90	4.80	2.60	1.10	1.50	3.60	4.30	1.30	2.30	4.90
2	1.90	2.20	1.80	3.90	2.30	1.10	1.30	2.90	3.20	1.30	2.20	4.40
3	1.80	2.10	1.90	3.10	2.20	1.10	1.20	2.80	2.70	1.40	2.20	7.70
4	1.70	2.00	2.40	3.00	2.10	1.10	1.10	11.50	2.70	16.00	2.10	10.00
5	1.70	2.00	2.90	17.00	2.00	1.10	1.20	14.00	4.00	32.00	2.10	8.60
6	1.80	2.00	2.80	18.80	2.00	1.10	1.30	8.90	4.60	23.50	2.20	6.80
7	1.80	2.00	2.50	12.10	1.90	1.00	1.70	10.10	6.00	16.40	2.70	5.60
8	1.80	2.00	2.30	7.10	1.90	.90	2.90	8.50	5.60	22.80	4.20	4.80
9	1.90	2.00	2.20	5.20	1.80	.90	4.90	7.90	4.50	14.00	2.80	4.60
10	1.90	1.90	2.00	4.00	1.80	.90	3.60	5.30	3.50	7.90	3.00	6.70
11	1.90	1.90	2.00	3.40	1.70	.80	4.40	17.30	2.90	5.90	7.10	6.10
12	2.40	1.90	2.00	3.10	1.70	.90	2.00	22.60	2.60	4.90	5.10	5.50
13	2.40	1.90	1.90	3.00	1.70	1.20	1.70	10.10	2.50	3.80	5.00	5.00
14	2.60	1.90	1.90	2.90	1.60	1.20	2.70	7.70	2.40	3.40	5.90	4.40
15	2.40	1.80	2.70	2.80	1.60	1.10	3.50	6.10	2.20	3.00	5.50	4.00
16	2.40	1.80	2.60	2.60	1.60	1.20	5.10	4.20	2.00	2.70	5.40	3.80
17	2.40	1.80	2.50	2.40	1.60	2.10	2.40	3.40	1.80	2.60	6.20	3.60
18	2.30	1.90	2.60	2.40	1.60	1.80	2.80	2.80	1.70	4.40	6.10	3.40
19	2.20	2.20	2.50	2.20	1.50	1.40	3.05	2.60	1.60	5.00	14.40	4.30
20	2.20	2.30	2.40	2.40	1.50	1.40	2.30	2.80	1.60	4.40	12.20	7.60
21	3.10	2.30	2.20	2.80	1.40	1.40	1.90	2.50	1.50	3.70	10.00	7.00
22	3.10	2.10	2.00	2.70	1.40	3.00	1.60	2.30	1.50	3.30	8.00	5.20
23	3.00	2.00	1.90	2.80	1.30	2.40	1.60	2.20	1.50	3.10	10.00	4.40
24	2.90	2.00	1.90	14.50	1.30	2.20	1.50	2.00	1.60	2.70	8.80	6.40
25	2.60	1.90	1.80	11.60	1.20	2.10	1.50	2.10	1.80	2.60	7.90	6.00
26	2.90	1.80	1.80	5.90	1.20	1.80	2.50	3.10	2.00	2.50	5.30	4.60
27	3.60	1.90	1.80	4.30	1.20	1.50	2.60	10.20	1.80	2.40	4.60	4.20
28	3.90	1.90	1.70	3.30	1.30	1.80	4.10	8.40	1.60	2.40	4.10	3.90
29	3.10	.....	2.20	2.95	1.20	2.70	2.80	7.00	1.50	2.40	4.90	3.80
30	2.65	.....	4.20	2.80	1.20	1.90	2.90	5.20	1.50	2.40	5.40	3.70
31	2.40	.....	5.30	.....	1.10	.....	3.80	5.10	.....	2.30	.....	4.00
1899												
1	5.00	17.00	27.00	18.00	4.30	2.40	2.80	3.00	2.40	.70	1.50	2.40
2	4.60	11.60	19.00	12.20	4.00	2.90	2.30	2.70	2.30	.70	1.40	2.50
3	3.90	24.50	13.50	6.50	3.90	2.40	1.90	3.10	2.10	.80	1.40	2.60
4	3.90	20.00	9.60	6.40	3.80	2.40	1.80	3.10	2.00	.90	1.30	2.60
5	3.90	12.90	14.20	8.50	3.70	2.30	1.60	2.50	1.80	1.00	1.30	2.90
6	3.80	11.90	13.20	9.70	3.60	2.20	1.50	2.30	1.60	1.40	1.20	2.20
7	7.40	17.50	10.10	10.30	3.50	2.10	1.50	2.20	1.60	1.40	1.20	2.00
8	8.00	27.00	8.60	13.00	3.60	2.00	2.00	2.00	1.40	1.30	1.20	1.90
9	7.10	19.00	7.70	13.00	3.50	1.90	2.20	1.80	1.40	1.30	1.20	1.80
10	6.40	13.80	7.20	11.20	3.40	1.70	2.00	1.60	1.30	1.30	1.20	1.90
11	18.50	10.00	6.80	8.40	3.30	1.90	1.80	1.50	1.20	1.40	1.30	2.00
12	16.80	8.30	6.60	7.00	3.20	2.00	1.70	1.70	1.20	1.40	1.30	15.20
13	13.00	7.40	6.50	6.50	3.10	2.00	1.50	1.60	1.20	1.30	1.30	13.20
14	11.60	7.00	6.40	6.20	3.10	2.70	1.40	1.60	1.10	1.30	1.30	8.20
15	9.40	6.10	7.20	6.00	3.00	2.70	1.30	1.50	1.00	1.20	1.30	5.00
16	7.80	10.40	12.20	7.10	2.90	2.60	1.30	4.00	1.00	1.10	1.30	3.70
17	12.70	11.50	11.00	6.60	2.80	2.10	1.20	3.90	1.00	1.20	1.60	3.00
18	10.00	10.60	10.20	5.60	2.70	1.90	1.10	2.20	1.00	1.10	1.50	2.60
19	8.00	9.30	14.80	5.50	2.60	1.80	1.60	1.90	1.10	1.20	1.50	2.50
20	6.50	8.30	13.90	5.40	2.50	1.80	1.40	1.70	1.00	1.30	1.50	2.70
21	5.70	8.30	10.40	5.20	2.60	1.70	8.40	1.50	.90	1.40	1.40	2.70
22	5.30	8.40	8.30	5.00	2.70	1.50	16.75	1.60	1.00	1.50	1.40	2.70
23	5.10	7.60	8.10	4.90	2.60	1.50	14.00	2.00	1.00	1.60	1.60	2.60
24	5.20	6.90	12.70	6.00	3.30	1.50	16.95	2.60	.90	1.80	1.80	9.30
25	5.20	6.40	8.70	10.00	4.60	1.50	7.90	1.90	.90	1.50	2.20	9.40
26	5.10	6.30	7.30	7.50	3.30	2.00	6.70	1.80	.90	1.40	4.60	7.20
27	4.80	25.00	6.90	6.60	2.80	2.50	6.80	3.70	.90	1.30	6.20	5.00
28	4.70	37.00	6.80	5.80	2.60	2.50	8.40	2.80	.80	1.20	4.80	4.00
29	5.10	.....	9.00	4.90	2.50	2.20	10.10	2.10	.80	1.50	3.60	3.50
30	5.20	.....	8.90	4.60	2.60	2.70	5.40	1.90	.80	1.50	2.80	3.10
31	6.50	.....	13.85	.....	2.50	.....	4.40	2.30	.....	1.60	.....	2.90

Daily gage height, in feet, of Tallapoosa River at Milstead, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	April.	May	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900.												
1	2.70	2.50	12.20	5.50	6.30	2.60	9.00	6.50	2.70	1.80	2.50	3.80
2	2.60	2.40	13.10	5.30	5.90	2.70	9.10	4.50	8.00	1.60	3.80	3.30
3	2.40	2.30	10.70	5.00	5.40	3.00	10.60	3.50	8.10	1.50	6.10	3.30
4	2.30	4.50	8.00	4.30	4.90	3.50	7.10	2.80	4.40	1.80	6.50	3.50
5	2.30	4.20	6.80	4.80	4.70	3.30	8.00	2.70	3.00	3.30	7.10	3.90
6	2.30	4.30	6.10	4.70	3.90	3.50	5.20	2.50	2.40	6.40	5.50	3.90
7	2.20	4.40	5.60	4.60	3.80	3.30	4.40	2.30	2.20	3.40	4.10	3.80
8	2.20	3.80	10.90	4.60	3.70	5.90	4.00	2.20	2.00	3.20	3.50	3.80
9	2.20	5.20	13.30	4.50	3.60	9.70	3.50	2.10	1.80	2.60	8.00	3.10
10	2.20	8.80	12.70	4.60	3.50	6.90	7.60	2.00	1.70	2.60	2.90	3.10
11	2.60	19.00	10.00	5.50	3.30	5.60	5.50	1.90	1.70	3.00	2.70	2.80
12	7.80	30.00	7.90	10.60	3.20	4.60	4.10	1.90	1.60	2.80	2.60	2.80
13	6.00	43.25	6.60	11.50	3.10	5.30	4.70	1.80	1.50	3.40	2.60	2.80
14	4.50	42.00	5.90	9.00	3.00	4.00	6.70	1.90	1.50	3.30	2.50	7.70
15	4.00	31.90	5.40	6.60	2.90	3.80	6.00	2.20	14.00	3.30	2.50	9.10
16	3.40	22.80	7.00	5.30	2.90	3.50	5.10	2.70	25.60	2.70	2.50	7.30
17	3.00	13.50	7.20	4.70	2.80	4.50	3.80	3.10	18.00	2.70	2.50	5.20
18	2.90	8.90	5.60	13.90	2.80	5.90	3.80	2.50	11 00	2.20	2.50	4.20
19	3.70	7.00	5.40	17.00	2.80	5.00	3.60	4.00	5.30	2.10	2.50	4.00
20	9.50	6.10	6.00	15.00	2.90	5.90	3.10	4.20	3.60	2.00	2.50	3.60
21	7.50	6.50	11.40	16.90	2.80	5.90	3.00	2.50	3.00	1.90	2.50	17.00
22	5.90	9.80	10.50	13.30	3.00	5.50	2.80	2.20	2.50	2.00	4.00	13.50
23	4.60	9.50	7.60	10.30	3.10	5.40	2.70	2.00	2.30	4.80	4.00	10.40
24	3.90	8.90	15.50	13.20	3.40	20.00	2.60	2.30	2.20	12.10	3.90	11.30
25	3.50	8.40	15.20	12.50	3.50	25.04	2.50	3.30	2.00	10.50	3.50	8.70
26	3.10	8.00	16.00	9.40	5.00	20.00	2.50	3.40	2.00	9.00	10.50	6.60
27	3.00	7.00	13.70	7.50	4.50	16.00	2.80	3.60	2.00	6.00	5.80	5.60
28	2.80	6.00	11.20	6.40	3.20	18.00	2.90	2.70	2.00	4.20	6.70	5.00
29	2.70	.	8.70	6.20	2.70	13.90	3.20	2.60	2.00	2.20	4.50	4.60
30	2.60	.	7.10	6.10	3.00	9.00	3.10	2.10	1.90	2.90	3.70	4.30
31	2.50	.....	6.20	.....	2.50	.....	10.60	3.20	.....	2.70	. ...	11.00
1901.												
1	14.30	7.40	5.30	26.00	5.00	8.70	5.10	2.10	4.00	2.20	1.70	2.00
2	15.50	7.20	5.20	22.00	4.80	8.60	4.20	2.20	3.50	2.90	1.70	2.00
3	14.50	7.50	5.10	23.00	4.70	9.70	4.30	2.30	2.90	6.10	1.70	1.95
4	11.00	24.07	5.00	18.00	4.60	10.90	4.00	2.20	2.70	6.40	1.80	2.20
5	9.80	26.00	4.90	14.20	4.40	8.00	3.38	2.10	2.40	5.10	1.95	2.40
6	8.70	18.30	4.70	10.80	4.30	7.30	3.60	2.10	2.20	4.00	1.95	2.40
7	7.40	12.60	4.50	9.60	4.20	12.10	4.00	2.60	2.10	3.20	2.00	2.30
8	6.10	10.50	4.40	7.20	4.20	10.10	4.80	2.60	2.00	2.50	1.90	2.20
9	5.30	13.10	4.40	6.80	4.10	6.30	4.70	2.30	2.00	2.10	1.90	2.20
10	5.00	14.00	4.70	6.20	3.90	5.90	3.70	2.80	1.90	2.00	2.00	2.20
11	6.00	12.80	7.70	5.80	3.80	4.50	2.90	2.10	1.90	1.90	1.90	2.30
12	24.20	10.90	6.00	5.60	3.80	4.10	2.60	2.30	1.80	1.90	1.80	2.50
13	30.50	9.80	5.50	6.10	3.80	4.20	2.60	2.90	1.80	1.90	1.80	2.40
14	22.00	8.20	6.00	8.80	4.50	5.00	2.10	2.50	2.80	2.00	1.75	2.60
15	18.00	7.70	5.50	10.70	4.30	7.30	2.20	2.10	4.20	2.10	1.75	6.00
16	11.50	6.90	5.10	8.70	4.00	5.70	2.30	3.20	3.10	2.10	1.80	13.40
17	12.20	6.60	4.50	7.70	3.60	6.00	5.30	8.90	3.00	2.00	1.80	9.00
18	12.10	6.50	4.10	11.00	3.50	5.20	4.80	8.00	5.60	1.90	1.80	6.00
19	9.70	6.30	4.00	23.00	3.50	4.40	4.30	6.60	9.10	1.90	1.90	3.90
20	8.00	6.20	6.00	22.00	5.50	4.00	3.50	5.90	7.10	1.80	2.10	3.60
21	7.10	5.90	7.90	13.40	10.50	3.60	3.30	9.60	5.00	1.80	2.20	3.40
22	6.80	5.80	6.30	10.70	16.20	3.30	3.10	7.20	3.80	1.70	2.20	3.20
23	6.40	5.70	6.20	8.90	14.20	3.30	2.80	20.75	2.70	1.70	2.30	3.10
24	6.20	6.00	10.10	7.60	12.00	3.20	3.50	21.00	2.30	1.70	2.20	3.10
25	7.00	6.10	8.90	6.90	9.00	9.10	2.40	9.40	2.10	1.70	2.20	3.00
26	6.80	6.10	10.20	6.50	10.60	3.00	2.20	6.90	2.10	1.60	2.10	2.90
27	6.70	6.00	14.30	6.10	8.40	2.90	2.50	4.20	2.00	1.70	2.30	2.95
28	6.70	5.50	17.50	5.80	6.40	2.80	2.50	5.90	2.10	1.70	2.20	3.05
29	6.60	.....	15.00	5.50	6.00	2.60	2.30	8.70	2.30	1.70	2.10	38.00
30	6.80	.....	9.90	5.20	5.10	2.60	2.20	7.70	2.50	1.70	2.00	47.00
31	7.00	.....	31.50	.....	4.80	.....	2.20	4.70	.....	1.70	.....	39.00

Rating table for Tallapoosa River at Milstead, Ala., for 1897.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
0.5	330	1.5	1,070	3.0	3,129	5.0	5,909
.6	350	1.6	1,200	3.2	3,407	5.2	6,187
.7	380	1.7	1,333	3.4	3,685	5.4	6,465
.8	420	1.8	1,467	3.6	3,963	5.6	6,743
.9	470	1.9	1,600	3.8	4,241	5.8	7,021
1.0	530	2.0	1,733	4.0	4,519	6.0	7,299
1.1	620	2.2	2,007	4.2	4,797	7.0	8,689
1.2	720	2.4	2,285	4.4	5,075	8.0	10,079
1.3	830	2.6	2,573	4.6	5,353	9.0	11,469
1.4	950	2.8	2,851	4.8	5,631		

Rating table for Tallapoosa River at Milstead, Ala., for 1898.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
0.8	540	1.7	1,575	2.6	2,610	8.0	8,820
.9	655	1.8	1,690	2.7	2,725	9.0	9,970
1.0	770	1.9	1,805	2.8	2,840	10.0	11,120
1.1	885	2.0	1,920	2.9	2,955	11.0	12,270
1.2	1,000	2.1	2,035	3.0	3,070	12.0	13,420
1.3	1,115	2.2	2,150	4.0	4,220	13.0	14,570
1.4	1,230	2.3	2,265	5.0	5,370	14.0	15,720
1.5	1,345	2.4	2,380	6.0	6,520	15.0	16,870
1.6	1,460	2.5	2,495	7.0	7,670		

Rating table for Tallapoosa River at Milstead, Ala., for 1899.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
0.7	320	1.9	1,779	7.5	8,667	16.0	19,122
.8	430	2.0	1,902	8.0	9,282	17.0	20,352
.9	550	2.5	2,517	8.5	9,897	18.0	21,582
1.0	672	3.0	3,132	9.0	10,512	19.0	22,812
1.1	795	3.5	3,747	9.5	11,127	20.0	24,042
1.2	918	4.0	4,362	10.0	11,742	21.0	25,272
1.3	1,041	4.5	4,977	11.0	12,972	22.0	26,502
1.4	1,164	5.0	5,592	12.0	14,202	23.0	27,732
1.5	1,287	5.5	6,207	13.0	15,432	24.0	28,962
1.6	1,410	6.0	6,822	14.0	16,662	25.0	30,192
1.7	1,533	6.5	7,437	15.0	17,892	26.0	31,422
1.8	1,656	7.0	8,052				

Rating table for Tallapoosa River at Milstead, Ala., for 1900 and 1901.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
1.5	1,337	3.4	3,475	8.0	8,650	26.0	28,900
1.6	1,450	3.5	3,587	9.0	9,775	27.0	30,025
1.7	1,562	3.6	3,700	10.0	10,900	28.0	31,150
1.8	1,675	3.7	3,812	11.0	12,025	29.0	32,275
1.9	1,787	3.8	3,925	12.0	13,150	30.0	33,400
2.0	1,900	3.9	4,037	13.0	14,275	31.0	34,525
2.1	2,012	4.0	4,150	14.0	15,400	32.0	35,650
2.2	2,125	4.1	4,262	15.0	16,525	33.0	36,775
2.3	2,237	4.2	4,375	16.0	17,650	34.0	37,900
2.4	2,350	4.3	4,487	17.0	18,775	35.0	39,025
2.5	2,462	4.4	4,600	18.0	19,900	36.0	41,150
2.6	2,575	4.5	4,712	19.0	21,025	37.0	41,275
2.7	2,687	4.6	4,825	20.0	22,150	38.0	42,400
2.8	2,800	4.7	4,937	21.0	23,275	39.0	43,525
2.9	2,912	4.8	5,050	22.0	24,400	40.0	44,650
3.0	3,025	4.9	5,162	23.0	25,525	41.0	45,775
3.1	3,137	5.0	5,275	24.0	26,650	42.0	46,900
3.2	3,250	6.0	6,400	25.0	27,775	43.0	48,025
3.3	3,362	7.0	7,525				

Estimated monthly discharge of Tallapoosa River at Milstead, Ala.

[Drainage area, 3,340 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-feet per square mile.	Depth in inches.
1897					
August 7-31	12,440	1,070	3,178	0.83	0.77
September	1,467	420	742	.19	.21
October	470	380	424	.11	.12
November	1,200	470	729	.19	.21
December	6,604	1,070	2,214	.58	.67
1898					
January	4,105	1,575	2,426	.63	0.72
February	2,265	1,690	1,912	.50	.52
March	5,715	1,575	2,318	.60	.69
April	21,240	2,150	5,748	1.50	1.67
May	2,610	885	1,493	.39	.45
June	3,070	540	1,314	.34	.38
July	5,485	885	2,493	.65	.75
August	25,610	1,920	7,418	1.93	2.22
September	6,520	1,845	2,637	.69	.77
October	36,420	1,115	7,280	1.90	2.19
November	16,180	2,035	6,049	1.58	1.76
December	11,120	3,530	5,741	1.50	1.73
The year	36,420	540	3,902	1.02	13.85
1899					
January	22,197	4,116	8,417	2.19	2.53
February	44,952	6,945	15,688	4.09	4.26
March	32,652	7,314	12,399	3.23	3.72
April	21,582	5,100	9,016	2.35	2.62
May	4,781	2,517	3,351	.87	1.00
June	2,999	1,287	2,040	.53	.59
July	20,290	795	4,985	1.30	1.50
August	4,362	1,287	2,222	.58	.67
September	2,394	430	984	.26	.29
October	1,656	320	1,014	.26	.30
November	7,068	918	1,787	.47	.53
December	18,138	1,656	4,728	1.23	1.42
The year	44,952	320	5,553	1.45	19.48

Estimated monthly discharge of Tallapoosa River at Milstead—Continued.
[Drainage area, 3,840 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-feet per square mile.	Depth in inches.
1900					
January	10,335	2,125	3,728	.97	1.12
February	48,305	2,237	12,950	3.37	3.50
March	17,650	5,723	10,208	2.66	3.07
April	18,775	4,712	9,016	2.35	2.62
May	6,736	2,462	3,718	.97	1.12
June	27,331	2,575	8,317	2.17	2.42
July	11,572	2,462	5,405	1.41	1.63
August	6,960	1,675	2,814	.73	.84
September	28,447	1,337	4,975	1.30	1.45
October	13,262	1,337	3,787	.99	1.14
November	11,460	2,462	4,224	1.10	1.23
December	18,775	2,800	6,475	1.69	1.95
The year	48,305	1,337	6,301	1.64	22.09
1901					
January	33,962	5,275	11,476	2.99	3.45
February	28,900	5,337	10,440	2.72	2.83
March	35,087	4,150	8,374	2.18	2.52
April	28,900	5,499	12,020	3.13	3.49
May	17,875	3,587	6,440	1.68	1.94
June	13,262	2,775	5,976	1.56	1.74
July	5,337	2,012	3,398	.88	1.01
August	23,275	2,012	5,904	1.54	1.78
September	9,337	1,675	3,137	.82	.91
October	6,849	1,562	2,364	.62	.71
November	2,237	1,562	1,855	.48	.54
December	70,000	1,848	8,282	2.16	2.49
The year	70,000	1,562	6,639	1.73	23.41

LITTLE TALLAPOOSA RIVER NEAR WEDOWEE, ALA.

Location.—At wagon bridge, six miles northwest of Wedowee on road to Lineville, 2 miles below mouth of Wedowee Creek and four miles above the junction of Little Tallapoosa and Tallapoosa rivers.

Records available.—August 29, 1913, to June 30, 1914.

Gage.—Vertical rod on right bank, 20 feet above the bridge.

Channel.—Good for accurate records.

Discharge measurements.—Made from the single span steel bridge.

Artificial control.—Probably slight, caused by small mills above.

Accuracy.—No rating has been developed. The gage height records for 1913-1914 are not considered good.

Discharge measurements of Little Tallapoosa River near Wedowee, Ala.

1913	Gage height. Feet.	Discharge. Sec.-feet.
August 29	0.8	165

Daily gage height, in feet, of Little Tallapoosa River near Wedowee, Ala.

Day.	1913				1914					
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.
1	1.0	2.05	1.0	2.0	1.65	2.25	1.85	4.8	3.9	1.0
2	1.6	1.65	.9	2.6	1.65	1.9	1.85	4.25	5.7	1.0
3	1.15	1.05	.95	1.8	1.85	1.5	145.	2.9	4.4	1.0
4	1.1	1.05	.95	2.7	1.95	1.2	1.7	2.25	3.95	2.3
5	1.2	1.55	.9	1.95	1.75	1.2	1.45	1.85	1.0	1.65
6	1.2	1.7	.85	1.65	1.5	2.6	1.55	1.75	3.6	1.8
7	1.0	2.05	.9	2.4	1.5	4.9	1.45	1.55	1.0	1.3
8	1.6	1.05	1.0	1.25	1.45	4.3	1.4	1.85	3.65	1.3
9	2.35	1.05	1.05	1.0	1.0	3.3	1.35	3.35	2.0	1.3
10	2.0	1.0	1.05	1.4	1.0	2.5	1.45	2.45	4.5	1.15
11	1.1	1.0	.95	1.2	1.25	2.0	1.85	2.2	2.0	1.0
12	1.05	1.0	.9	1.0	1.25	1.95	2.35	1.9	2.0	.9
13	1.05	1.05	.85	1.0	1.45	1.85	2.3	1.45	5.5	.85
14	1.05	1.1	.85	1.7	1.4	2.05	2.0	6.5	1.15	.8
15	1.15	1.0	.9	1.4	1.35	1.6	1.75	6.5	1.2	1.0
16	1.05	.8	.85	1.4	1.15	1.8	1.55	5.2	1.2	1.15
17	1.1	.65	.95	1.35	1.0	1.55	1.5	4.35	1.0	.85
18	1.15	1.0	.85	1.35	1.1	1.45	1.35	3.3	1.1	1.25
19	1.15	2.75	.9	1.0	.95	1.4	1.4	2.9	2.1	1.75
20	1.0	2.1	.85	1.0	1.05	2.15	1.75	5.7	1.1	1.05
21	1.1	1.2	.8	1.15	1.2	2.05	1.85	4.3	1.2	1.1
22	1.2	1.35	.85	1.0	1.1	1.7	1.4	3.3	1.2	1.25
23	1.0	1.25	.9	.95	1.0	1.75	1.25	2.6	1.05	1.15
24	1.0	2.85	.8	.9	1.7	1.95	1.3	2.05	1.0	.85
25	1.1	2.25	.85	1.05	2.55	1.45	1.4	2.0	1.0	.7
26	1.0	1.65	.9	.9	2.7	1.75	1.55	2.05	1.0	.8
27	1.0	1.3	.8	.85	2.05	1.45	1.65	1.9	1.0	.9
28	2.05	1.15	.9	1.15	1.6	1.65	1.7	1.7	1.0	.95
29	1.65	1.2	.9	2.0	1.15	.....	1.55	4.25	1.0	.95
30	1.05	1.15	1.0	2.45	1.7	.....	1.45	4.6	1.0	.85
31	.....	1.05	.....	2.5	1.75	.....	3.15	.....	1.0	.....

HILLABEE CREEK NEAR ALEXANDER CITY, ALA.

Location.—At Chisholm's Bridge, six and one-half miles northeast of Alexander City, Ala.

Records available.—August 29, 1900, to December 31, 1903.

Drainage area.—214 square miles.

Gage.—Vertical rod.

Channel.—Fairly good for measuring.

Discharge measurements.—Made from the bridge.

Artificial control.—Probably some effect of small mills above.

Accuracy.—The rating is good only for medium and low stages below 2.50 feet gage height.

Discharge measurements of Hillabee Creek, near Alexander

Date.	Gage height. Feet.	Discharge. Sec.-feet.	Date.	Gage height. Feet.	Discharge. Sec.-feet.
1900			1903		
August 29	1.40	184	May 21	2.65	766
November 28	2.00	390	July 24	1.50	212
1901			August 21	1.50	205
January 22	2.50	606	August 21	1.50	213
September 12	1.00	139	October 5	.94	84
1902			November 25	1.15	114
July 16	1.12	169			

Daily gage height, in feet, of Hillabee Creek near Alexander.

Day.	Jan.	Feb.	Mar.	Apr.	May	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900.												
1	.....	.....	.....	.....	.....	.....	.....	.....	2.20	1.20	1.60	1.80
2	.....	.....	.....	.....	.....	.....	.....	.....	2.20	1.10	2.60	1.80
3	.....	.....	.....	.....	.....	.....	.....	.....	1.60	1.10	6.60	1.80
4	.....	.....	.....	.....	.....	.....	.....	.....	1.40	1.10	3.20	1.80
5	.....	.....	.....	.....	.....	.....	.....	.....	1.30	3.20	2.20	1.80
6	.....	.....	.....	.....	.....	.....	.....	.....	1.20	2.00	1.80	1.80
7	.....	.....	.....	.....	.....	.....	.....	.....	1.20	2.30	1.70	1.80
8	.....	.....	.....	.....	.....	.....	.....	.....	1.10	2.00	1.70	1.70
9	.....	.....	.....	.....	.....	.....	.....	.....	1.10	2.40	1.80	1.70
10	.....	.....	.....	.....	.....	.....	.....	.....	1.20	2.30	1.70	1.70
11	.....	.....	.....	.....	.....	.....	.....	.....	1.10	2.30	1.70	1.70
12	.....	.....	.....	.....	.....	.....	.....	.....	1.10	1.80	1.70	1.70
13	.....	.....	.....	.....	.....	.....	.....	.....	1.10	1.60	1.70	1.80
14	.....	.....	.....	.....	.....	.....	.....	.....	1.10	1.40	1.70	3.80
15	.....	.....	.....	.....	.....	.....	.....	.....	3.10	1.40	1.70	2.80
16	.....	.....	.....	.....	.....	.....	.....	.....	5.00	1.20	1.60	2.80
17	.....	.....	.....	.....	.....	.....	.....	.....	2.60	1.30	1.50	2.70
18	.....	.....	.....	.....	.....	.....	.....	.....	2.20	1.30	1.40	2.80
19	.....	.....	.....	.....	.....	.....	.....	.....	1.60	1.20	1.50	3.00
20	.....	.....	.....	.....	.....	.....	.....	.....	1.50	1.20	1.60	2.90
21	.....	.....	.....	.....	.....	.....	.....	.....	1.50	1.20	1.70	6.00
22	.....	.....	.....	.....	.....	.....	.....	.....	1.40	1.90	2.10	4.00
23	.....	.....	.....	.....	.....	.....	.....	.....	1.20	5.80	1.80	3.00
24	.....	.....	.....	.....	.....	.....	.....	.....	1.30	2.80	1.80	2.80
25	.....	.....	.....	.....	.....	.....	.....	.....	1.40	2.10	5.10	2.80
26	.....	.....	.....	.....	.....	.....	.....	.....	1.30	1.90	2.80	2.80
27	.....	.....	.....	.....	.....	.....	.....	.....	1.40	1.80	2.40	2.60
28	.....	.....	.....	.....	.....	.....	.....	.....	1.30	1.70	2.00	2.50
29	.....	.....	.....	.....	.....	.....	.....	1.40	1.40	1.60	1.90	2.50
30	.....	.....	.....	.....	.....	.....	.....	1.30	1.30	1.50	1.90	5.80
31	.....	.....	.....	.....	.....	.....	.....	1.80	.....	1.50	.....	5.70
1901.												
1	5.00	2.40	2.30	5.20	2.50	2.50	2.50	1.80	2.60	1.20	1.00	1.00
2	4.90	2.40	2.30	4.40	2.50	2.40	2.50	1.40	2.00	1.20	1.00	1.00
3	4.90	4.60	2.40	4.80	2.50	3.00	2.40	1.40	1.40	1.10	1.00	2.00
4	4.70	9.40	2.40	3.10	2.40	2.50	2.30	1.20	1.20	1.10	1.00	1.60
5	3.90	6.00	2.30	2.90	2.40	2.50	2.00	1.10	1.10	1.10	1.30	1.40
6	3.00	4.10	2.20	2.80	2.40	2.60	1.80	1.10	1.10	1.20	1.10	1.30
7	3.60	3.00	2.10	2.70	2.40	2.50	2.90	1.10	1.10	1.40	1.10	1.30
8	3.40	3.10	2.10	2.60	2.40	2.50	2.10	1.00	1.10	1.20	1.00	1.30
9	2.60	3.60	2.10	2.60	2.30	2.40	1.80	1.20	1.10	1.20	1.00	1.20
10	2.50	3.00	2.40	2.50	2.30	2.40	1.80	1.20	1.10	1.20	1.00	1.20
11	3.00	2.90	2.50	2.50	2.30	2.30	1.70	1.10	1.00	1.60	1.00	1.50
12	7.80	2.80	2.30	2.40	2.20	2.00	1.60	1.10	1.00	2.00	1.00	1.40
13	7.00	2.80	2.20	3.10	2.50	2.10	1.50	1.20	1.20	2.80	1.00	1.40
14	5.90	3.00	2.20	2.90	2.30	2.00	1.40	1.60	2.50	1.60	1.00	2.60
15	4.50	3.10	2.30	2.60	2.50	2.00	1.30	2.10	2.40	1.40	1.00	3.00
16	4.30	2.60	2.40	2.70	2.20	1.90	1.40	4.40	2.40	1.20	1.00	3.00
17	4.00	2.60	2.20	2.60	2.20	2.20	1.30	2.90	2.00	1.00	1.00	2.80
18	3.50	2.40	2.20	2.60	2.10	1.90	3.40	2.00	1.80	1.00	1.00	2.70
19	3.40	2.60	2.10	10.00	2.10	1.80	2.20	2.00	1.60	1.00	1.30	2.60
20	3.00	2.70	2.10	3.20	2.90	1.80	1.80	4.00	1.40	1.00	1.30	2.60
21	2.90	2.60	3.00	3.10	3.80	1.70	2.00	4.10	1.20	1.00	1.30	1.50
22	2.90	2.40	2.40	3.00	2.90	1.70	1.90	3.40	1.40	1.00	1.30	1.50
23	2.80	2.60	2.30	2.90	2.50	1.60	1.80	3.10	1.20	1.00	1.30	1.50
24	2.60	2.60	2.80	2.80	2.50	1.60	1.80	2.90	1.10	1.00	1.30	1.60
25	2.50	2.50	2.70	2.70	2.40	1.70	1.70	2.20	1.10	1.00	1.20	1.60
26	2.60	2.40	3.50	2.60	3.90	1.70	1.70	2.30	1.20	1.00	1.20	1.70
27	2.60	2.40	3.00	2.50	2.80	1.80	1.40	2.10	2.10	1.00	1.10	1.70
28	2.50	2.40	2.70	2.50	2.60	1.80	1.60	3.80	1.60	1.00	1.10	1.80
29	2.40	.....	2.60	2.50	2.50	1.70	1.40	3.60	1.40	1.00	1.10	11.00
30	2.40	.....	2.70	2.50	2.30	2.00	1.40	3.40	1.20	1.00	1.10	4.90
31	2.40	.....	5.20	.....	2.90	.....	2.00	3.00	.....	1.00	.....	3.90

Daily gage height, in feet, of Hillabee Creek near Alexander—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1902.												
1	3.70	5.20	4.10	3.40	1.90	1.60	0.60	0.80	1.40	1.20	0.90	1.80
2	3.50	7.70	4.00	3.20	1.90	1.60	.60	.60	1.60	1.20	.80	6.00
3	3.60	3.70	3.90	3.00	1.80	1.70	.60	.90	1.90	1.60	.70	4.20
4	2.60	3.60	3.90	3.00	1.90	1.70	.60	1.20	1.50	1.60	2.00	3.60
5	2.60	2.70	3.00	3.00	1.90	1.70	.70	1.10	1.40	1.60	1.60	2.60
6	2.00	2.30	3.50	2.90	1.90	1.60	.70	1.10	1.30	1.50	2.00	1.90
7	2.00	2.40	3.60	4.10	1.90	1.60	.70	1.00	1.20	2.60	1.10	1.90
8	1.90	2.10	2.60	3.40	1.90	1.60	.70	1.00	1.10	2.60	1.00	1.90
9	1.50	2.10	2.40	3.20	1.80	1.60	.80	.90	1.40	1.30	1.00	1.60
10	1.70	2.00	2.30	2.80	1.80	1.50	1.00	.90	1.30	4.10	1.00	1.80
11	1.70	2.00	2.30	2.60	1.80	1.50	1.10	.90	1.20	3.50	1.00	1.70
12	1.70	2.00	2.00	2.60	1.70	1.40	1.30	.90	1.10	2.10	1.60	1.60
13	1.70	1.90	2.50	2.60	1.70	1.40	1.20	.80	1.10	2.40	.90	1.60
14	1.60	1.90	3.00	2.50	1.70	1.40	1.20	.80	1.00	2.60	.90	1.60
15	1.60	2.00	3.70	2.40	1.60	1.40	1.20	.80	1.00	2.30	.80	6.00
16	1.60	2.20	3.00	2.40	1.60	1.40	1.20	.80	1.00	2.20	.80	4.00
17	1.60	2.10	2.90	2.40	1.80	1.40	1.10	1.00	1.00	2.00	1.00	2.60
18	1.60	2.10	2.40	2.40	2.60	1.30	.90	.90	1.00	1.60	1.00	2.00
19	2.00	2.00	2.10	2.80	1.90	1.30	.90	.70	1.00	1.40	.90	1.90
20	1.90	2.00	3.00	2.40	1.90	1.20	.90	.70	.90	2.60	.90	1.90
21	2.80	2.10	2.90	2.80	1.80	1.20	.80	.70	.80	2.40	.90	1.90
22	2.10	2.00	2.50	2.20	1.60	1.20	.80	.70	.80	2.00	.80	1.80
23	2.00	2.00	4.60	2.20	1.80	1.20	.80	.70	.80	1.60	.70	2.00
24	2.00	2.00	3.40	2.10	1.70	1.10	.70	.70	.80	1.40	.70	2.00
25	1.90	2.20	3.00	2.10	1.70	1.10	.70	.70	2.10	1.10	1.30	1.90
26	1.90	2.00	3.00	2.00	1.70	1.00	.80	.70	2.00	1.00	1.40	1.80
27	1.90	7.00	7.00	2.00	1.70	.90	.80	2.00	1.80	.90	1.40	1.80
28	2.80	12.50	14.00	2.00	1.60	.90	.80	1.70	1.80	.90	1.50	3.50
29	3.00	.....	8.00	2.00	1.60	.80	.70	3.60	2.10	.80	1.60	2.20
30	2.70	.....	4.10	2.00	1.60	.90	.70	1.90	3.40	.90	1.70	2.00
31	2.30	.....	3.90	.....	1.60	.....	.70	1.50	.....	1.00	.....	1.90
1903.												
1	1.90	1.60	.....	2.20	2.20	2.30	2.40	2.40	2.70	1.10	1.00	1.10
2	4.00	1.60	.....	2.10	2.30	2.20	2.20	4.00	2.60	1.10	1.00	1.00
3	3.80	1.50	.....	2.20	2.80	2.70	3.30	4.00	2.40	1.10	1.00	1.00
4	3.00	3.00	.....	2.10	2.30	2.70	3.30	1.80	2.40	1.00	1.50	1.90
5	2.50	2.00	.....	2.70	2.30	3.80	2.10	1.80	2.40	1.00	1.80	1.90
6	1.30	1.90	.....	2.30	2.90	3.50	2.60	2.00	2.80	1.10	1.30	1.60
7	1.80	4.00	.....	2.60	3.10	2.80	2.00	1.80	2.60	1.10	1.20	1.00
8	1.90	16.50	.....	3.10	2.10	2.80	2.30	1.70	2.40	1.10	1.00	1.00
9	1.80	.....	.....	2.60	2.20	2.80	3.40	2.00	2.00	1.00	1.00	1.00
10	1.80	.....	.....	2.50	2.50	2.80	2.40	2.00	1.90	1.00	1.10	1.10
11	3.60	.....	.....	2.20	2.90	3.50	2.70	1.80	1.70	1.00	1.20	1.10
12	2.10	.....	.....	2.40	2.90	2.10	2.60	1.90	1.50	1.00	1.90	1.10
13	2.60	.....	.....	2.40	4.50	2.00	2.20	1.90	1.30	1.00	1.20	1.00
14	1.70	.....	.....	2.60	4.20	2.60	2.00	1.60	1.30	1.00	1.50	1.10
15	1.70	.....	.....	2.70	12.00	1.80	2.00	1.60	1.30	1.00	1.80	1.20
16	1.70	.....	.....	2.60	4.60	1.70	1.90	1.60	1.40	1.10	1.30	1.20
17	1.60	.....	.....	2.60	3.90	1.70	1.80	1.60	1.30	1.20	1.70	1.10
18	1.60	.....	.....	2.60	2.90	1.70	1.80	1.60	1.30	1.10	1.70	1.10
19	1.80	.....	.....	2.70	4.80	1.60	2.20	1.70	1.30	1.00	1.50	1.20
20	1.70	.....	.....	11.60	2.80	1.60	2.00	1.70	1.20	1.00	1.30	1.30
21	1.70	.....	.....	2.80	2.70	2.20	2.00	1.70	1.20	1.00	1.20	1.30
22	1.80	.....	2.10	2.30	2.60	5.30	2.00	1.70	1.20	1.00	1.50	1.20
23	1.80	.....	2.30	2.70	2.40	1.90	2.00	1.60	1.20	1.00	1.80	1.20
24	1.80	.....	2.30	2.50	2.60	1.80	2.00	1.60	1.20	1.00	1.80	1.20
25	1.80	.....	2.10	2.30	1.90	1.80	2.00	1.50	1.10	1.00	1.80	1.10
26	1.80	.....	2.60	2.30	1.80	2.50	1.80	1.50	1.00	1.00	1.50	1.20
27	1.80	.....	2.30	2.70	1.30	4.60	1.80	1.50	1.00	1.00	1.80	1.20
28	2.00	.....	2.80	2.70	1.30	3.80	1.80	1.40	1.00	1.00	1.50	1.20
29	2.70	.....	2.10	2.50	1.90	3.60	1.80	1.40	1.10	1.00	1.80	1.20
30	2.20	.....	2.60	2.50	1.80	3.00	1.80	2.40	1.10	1.00	1.20	1.20
31	1.90	.....	4.10	.....	1.80	.....	2.30	2.40	.....	1.00	.....	1.20

Rating table for Hillabee Creek near Alexander City, Ala., for 1900, 1901 and 1902.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
0.8	125	2.1	434	3.3	962	4.5	1,490
0.9	131	2.2	478	3.4	1,006	4.6	1,534
1.0	138	2.3	522	3.5	1,050	4.7	1,578
1.1	146	2.4	566	3.6	1,094	4.8	1,622
1.2	156	2.5	610	3.7	1,138	4.9	1,666
1.3	169	2.6	654	3.8	1,182	5.0	1,710
1.4	184	2.7	698	3.9	1,226	6.0	2,150
1.5	204	2.8	742	4.0	1,270	7.0	2,590
1.6	230	2.9	786	4.1	1,314	8.0	3,030
1.7	263	3.0	830	4.2	1,358	9.0	3,470
1.8	303	3.1	874	4.3	1,402	10.0	3,910
1.9	346	3.2	918	4.4	1,446	11.0	4,350
2.0	390						

Rating table for Hillabee Creek near Alexander City, Ala., for 1903.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
0.90	80	1.90	380	3.00	875	4.10	1,370
1.00	90	2.00	425	3.10	920	4.20	1,415
1.10	106	2.10	470	3.20	965	4.30	1,460
1.20	126	2.20	515	3.30	1,010	4.40	1,505
1.30	150	2.30	560	3.40	1,055	4.50	1,550
1.40	178	2.40	605	3.50	1,100	4.60	1,595
1.50	210	2.50	650	3.60	1,145	4.70	1,640
1.60	248	2.60	695	3.70	1,190	4.80	1,685
1.70	290	2.70	740	3.80	1,235	4.90	1,730
1.80	335	2.80	785	3.90	1,280	5.00	1,775
		2.90	830	4.00	1,325		

Estimated monthly discharge of Hillabee Creek near Alexander City, Ala.
[Drainage area, 214 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-feet per square mile.	Depth in inches.
1900					
September	3,074	146	370	1.73	1.93
October	2,106	146	387	1.81	2.09
November	2,502	184	471	2.20	2.45
December	2,150	263	716	3.35	3.86
1901					
January	3,030	566	1,198	5.60	6.46
February	3,646	566	920	4.30	4.48
March	1,798	434	617	2.88	3.32
April	3,910	566	911	4.26	4.75
May	1,226	434	624	2.92	3.37
June	830	230	439	2.05	2.29
July	1,006	169	357	1.67	1.93
August	1,446	138	535	2.50	2.89
September	654	138	249	1.16	1.29
October	786	138	181	.85	.98
November	169	138	148	.69	.77
December	4,350	138	526	2.46	2.84
The year	4,350	138	559	2.61	35.37

Estimated monthly discharge of Hillabee Creek near Alexander City, Ala.—Continued.

[Drainage area, 214 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-feet per square mile.	Depth in inches.
1902					
January	1,188	230	459	2.14	2.47
February	5,010	346	854	3.99	4.15
March	5,670	390	1,284	6.00	6.92
April	1,314	390	647	3.02	3.37
May	390	230	294	1.37	1.58
June	263	125	186	.87	.97
July	169	120	137	.64	.74
August	1,094	120	182	.85	.98
September	1,094	125	254	1.19	1.33
October	1,314	131	525	2.45	2.82
November	1,094	120	213	1.00	1.12
December	2,150	230	569	2.66	3.07
The year	5,670	120	467	2.18	29.52
1903					
January	1,325	210	479	2.24	2.58
February 1 to 8	.....	.....	a1,333	a6.23	a1.85
March 22 to 31	.....	.....	b992	b4.64	b1.72
April	4,475	470	796	3.72	4.15
May	4,925	335	865	4.04	4.66
June	2,180	248	739	3.45	3.85
July	1,235	335	547	2.56	2.95
August	1,325	178	393	1.84	2.12
September	785	90	298	1.39	1.55
October	126	90	95	.44	.51
November	330	90	173	.81	.90
December	330	90	133	.62	.71
The year	.....	.....	.....	.....	.....

a—8 day period. b—10 day period.

BIG SANDY CREEK NEAR DADEVILLE, ALA.

Location.—At Smith's Bridge, four and one-half miles from Dadeville on the Dadeville and Susanna road.

Records available.—August 1, 1900, to December 31, 1901.

Drainage area.—195 square miles.

Gage.—Vertical rod.

Channel.—Rocky and rather shallow at low stages.

Discharge measurements.—Made from the wagon bridge.

Artificial control.—Probably a small amount due to mills above.

Accuracy.—Fairly good.

Discharge measurements of Big Sandy Creek near Dadeville, Ala.

	Gage height. Feet.	Discharge. Sec.-feet.		Gage height. Feet.	Discharge. Sec.-feet.
1900			1900		
July 6	1.20	260	August 25	1.35	281
August 8	1.00	110	November 16	1.10	155
August 8	1.00	116	December 31	2.00	870

Daily gage height, in feet, of Big Sandy Creek near Dadeville, Ala.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900.												
1								1.00	1.10	0.95	1.00	1.10
2								1.20	1.10	.90	1.80	1.15
3								1.10	1.40	.90	2.00	1.20
4								1.10	1.30	.90	1.80	1.40
5								1.10	1.20	3.50	1.40	1.35
6								1.05	1.05	1.80	1.20	1.30
7								1.05	1.00	1.25	1.20	1.25
8								1.00	1.00	1.20	1.20	1.20
9								1.05	.95	1.10	1.15	1.15
10								1.00	2.00	1.15	1.15	1.10
11								1.00	1.80	1.10	1.15	1.10
12								9.05	1.40	1.20	1.15	1.10
13								9.00	1.20	1.30	1.10	1.10
14								9.00	1.20	1.15	1.10	2.20
15								1.80	2.00	1.10	1.10	1.80
16								1.00	2.20	1.05	1.10	1.45
17								1.80	3.90	1.10	1.05	1.45
18								1.20	1.50	1.00	1.10	1.30
19								1.10	1.10	1.05	1.10	2.40
20								1.00	1.05	1.05	1.10	4.50
21								1.00	1.00	1.00	1.10	3.50
22								.90	1.00	1.50	1.80	1.70
23								.90	1.00	1.45	1.25	1.80
24								1.70	1.00	1.40	1.20	1.40
25								1.40	1.00	1.20	1.50	1.40
26								1.60	1.00	1.15	1.90	1.35
27								1.15	1.05	1.10	1.80	1.35
28								1.10	1.05	1.05	1.20	1.35
29								1.00	1.00	1.05	1.15	1.30
30								1.00	.90	1.00	1.10	1.75
31								1.80		1.05		2.00
1901.												
1	1.90	1.35	1.40	4.40	1.40	1.40	1.30	1.10	1.30	4.20	.85	.90
2	1.90	1.35	1.40	7.40	1.40	1.40	1.25	1.10	1.30	4.00	.85	.90
3	1.95	3.10	1.35	2.70	1.45	4.00	1.20	1.00	1.20	3.00	.85	1.40
4	1.70	6.00	1.35	2.00	1.35	5.60	1.29	1.05	1.10	3.50	.85	1.40
5	1.60	1.90	1.35	1.80	1.35	1.90	1.40	1.10	1.10	2.00	.85	1.40
6	1.50	1.75	1.40	1.60	1.35	3.50	1.50	1.05	1.10	1.80	.90	1.30
7	1.45	1.55	1.35	1.50	1.40	2.40	1.40	1.30	1.00	1.80	.90	1.10
8	1.40	2.10	1.35	1.50	1.35	1.90	1.25	1.20	1.00	1.50	1.00	1.00
9	1.40	3.50	1.40	1.50	1.35	1.50	1.20	1.10	1.00	1.40	1.00	1.10
10	1.40	2.20	1.45	1.50	1.30	1.60	1.20	1.10	.90	1.20	1.00	1.00
11	1.90	2.00	1.40	1.50	1.30	1.70	1.10	1.10	.90	1.20	1.00	1.00
12	1.70	1.70	1.35	1.55	1.35	2.00	1.10	1.20	.85	1.00	.90	1.00
13	2.50	1.50	1.35	1.65	1.35	1.80	1.10	1.15	.80	1.90	1.00	1.10
14	1.90	1.50	1.35	1.65	1.50	1.90	1.10	1.10	1.40	1.90	1.00	4.40
15	1.60	1.50	1.30	1.60	1.50	1.15	1.80	1.00	1.40	1.80	1.00	3.80
16	1.55	1.45	1.30	1.50	1.45	1.70	1.50	5.00	1.80	1.80	1.00	3.00
17	2.00	1.45	1.30	1.50	1.25	1.50	1.50	1.80	2.00	1.70	1.00	2.90
18	2.00	1.45	1.35	1.45	1.40	1.50	1.50	1.80	1.80	1.70	.90	2.50
19	1.60	1.50	1.35	6.00	1.40	1.45	1.30	1.40	1.80	1.70	.90	2.40
20	1.50	1.50	1.80	2.50	1.70	1.45	1.20	1.30	1.70	1.70	.80	2.40
21	1.50	1.45	1.60	2.40	7.00	1.40	1.15	1.20	1.40	1.60	.80	2.00
22	1.45	1.40	1.40	2.10	3.40	1.35	1.15	4.50	1.30	1.60	1.00	2.00
23	1.45	1.40	1.40	1.80	1.80	1.40	1.15	1.50	1.30	1.00	1.00	1.90
24	1.45	1.50	2.20	1.80	1.70	1.40	1.10	1.50	1.20	1.00	.85	1.80
25	1.50	1.50	2.10	1.70	1.50	1.35	1.10	1.40	1.20	.90	.85	1.50
26	1.55	1.45	1.70	1.60	2.70	1.30	1.10	1.40	1.10	.90	.80	3.00
27	1.45	1.45	1.70	1.45	1.80	1.30	1.15	1.20	1.00	.70	.90	3.00
28	1.40	1.45	1.40	1.45	1.50	1.20	1.20	2.00	1.00	.60	.90	21.00
29	1.40		1.40	1.45	1.50	1.15	1.15	1.50	1.80	.70	.90	16.00
30	1.40		2.30	1.45	1.45	1.20	1.10	1.40	1.80	.70	.90	8.00
31	1.40		13.10		1.40		1.10	1.40		.80		4.00

Rating table for Big Sandy Creek near Dadeville, Ala., for 1900 and 1901.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
0.8	67	2.7	984	4.5	1,920	7.6	3,532
.9	85	2.8	1,036	4.6	1,972	7.8	3,636
1.0	115	2.9	1,088	4.7	2,024	8.0	3,740
1.1	152	3.0	1,140	4.8	2,076	8.2	3,844
1.2	204	3.1	1,192	4.9	2,128	8.4	3,948
1.3	256	3.2	1,244	5.0	2,180	8.6	4,052
1.4	308	3.3	1,296	5.2	2,284	8.8	4,156
1.5	360	3.4	1,348	5.4	2,388	9.0	4,260
1.6	412	3.5	1,400	5.6	2,492	9.2	4,364
1.7	464	3.6	1,452	5.8	2,596	9.4	4,468
1.8	516	3.7	1,504	6.0	2,700	9.6	4,572
1.9	568	3.8	1,556	6.2	2,804	9.8	4,676
2.0	620	3.9	1,608	6.4	2,908	10.0	4,780
2.1	672	4.0	1,660	6.6	3,012	11.0	5,300
2.2	724	4.1	1,712	6.8	3,116	12.0	5,820
2.3	776	4.2	1,764	7.0	3,220	13.0	6,340
2.4	828	4.3	1,816	7.2	3,324	14.0	6,860
2.5	880	4.4	1,868	7.4	3,428	15.0	7,380
2.6	932						

Estimated monthly discharge of Big Sandy Creek near Dadeville, Ala.
[Drainage area, 195 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Second-feet per square mile.	Depth in inches.
1900.					
August	655	80	207	1.06	1.22
September	3,150	80	355	1.82	2.03
October	2,670	80	264	1.35	1.56
November	870	110	261	1.34	1.50
December	3,870	150	560	2.87	3.31
1901.					
January	880	308	425	2.18	2.51
February	2,700	282	545	2.78	2.90
March	6,392	256	552	2.83	3.26
April	3,428	334	689	3.53	3.94
May	3,220	230	480	2.46	2.84
June	2,492	178	523	2.68	2.99
July	516	152	227	1.16	1.34
August	2,180	115	369	1.89	2.18
September	620	67	257	1.32	1.47
October	1,764	45	462	2.37	2.73
November	115	67	92	.47	.52
December	10,500	85	1,285	6.49	7.48
The year	10,500	45	490	2.51	34.16

CAHABA RIVER AT CENTERVILLE, ALABAMA.

Location.—At the Bibb County highway bridge at Centerville, Ala.

Records available.—August 7, 1901, to February 5, 1908.

Drainage area.—1,040 square miles.

Gage.—Originally a wire gage attached to the bridge, which was later replaced by a chain gage having the same datum.

Channel.—Conditions of flow are changeable owing to shifting bed at and below the station.

Discharge measurements.—Made from the bridge.

Artificial control.—There is probably no artificial control.

Accuracy.—The conditions are not favorable for accuracy, and for this reason, the station was discontinued in 1908.

Discharge measurements of Cahaba River at Centerville, Ala.

Date.	Gage height. Feet.	Discharge. Sec.-feet.	Date.	Gage height. Feet.	Discharge. Sec.-feet.
1901			August 3	1.97	419
April 25	5.50	1,925	August 4	1.88	381
August 7	1.30	399	October 31	.86	103
1902			October 31	.88	108
January 26	5.15	1,707	1905		
April 7	8.60	2,823	February 20	8.85	3,882
July 9	2.40	251	February 21	12.15	5,204
1903			February 21	12.25	5,082
April 8	5.15	1,637	February 24	7.36	2,842
April 9	6.65	2,225	February 25	6.77	2,504
June 17	2.05	416	February 25	6.70	2,431
June 18	2.00	394	June 27	1.90	398
July 20	3.23	757	June 28	1.82	388
July 21	2.86	516	June 28	1.82	393
September 28	1.31	212	July 11	4.44	1,287
September 29	1.30	218	1906		
November 8	1.32	203	May 4	3.35	779
November 10	1.40	223	June 25	1.60	280
1904			October 25	3.26	686
February 22	3.47	856	1907		
June 25	1.29	208	October 26	1.60	251

Mean daily gage height, in feet, of Cahaba River at Centerville, Ala.

Day	Aug.	Sept.	Oct.	Nov.	Dec.	Day	Aug.	Sept.	Oct.	Nov.	Dec.
1901						1901					
1	.....	2.2	2.1	1.2	1.4	17	7.7	2.1	1.3	1.3	12.3
2	.....	2.0	2.0	1.2	1.3	18	8.1	2.6	1.3	1.3	4.4
3	.....	1.9	1.8	1.2	1.6	19	9.1	3.9	1.3	1.7	3.6
4	.....	1.8	1.4	1.2	1.9	20	10.6	4.1	1.3	1.6	3.1
5	.....	1.6	2.3	1.2	1.8	21	14.7	2.0	1.3	1.6	2.9
6	.....	1.5	4.6	1.1	1.6	22	10.3	1.9	1.3	1.5	2.6
7	1.3	1.4	3.1	1.1	1.7	23	7.9	1.8	1.3	1.6	2.5
8	1.3	1.4	2.6	1.1	1.6	24	5.6	1.6	1.2	1.6	2.6
9	1.2	1.4	2.3	1.2	1.7	25	4.8	1.5	1.2	1.5	2.7
10	1.2	1.4	1.9	1.2	2.1	26	4.1	1.4	1.2	1.5	2.7
11	1.2	1.3	1.6	1.2	2.0	27	3.9	1.4	1.2	1.5	2.7
12	1.2	1.3	1.4	1.3	1.8	28	3.4	1.4	1.2	1.4	6.0
13	1.3	1.3	1.4	1.4	1.9	29	3.0	2.6	1.3	1.4	24.0
14	1.5	2.6	1.4	1.3	2.9	30	2.8	2.2	1.3	1.4	24.0
15	2.1	2.4	1.3	1.3	19.0	31	2.5	.....	1.3	.....	21.0
16	7.9	2.0	1.3	1.3	15.0						

Mean daily gage height, in feet, of Cahaba River at Centerville, Ala.—Contd.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1902												
1	13.6	16.8	24.0	15.4	4.9	2.8	2.3	2.2	2.3	2.4	2.0	3.0
2	9.0	24.6	18.2	12.1	4.5	2.8	2.3	2.3	2.3	2.6	2.0	2.5
3	6.9	21.2	13.3	11.4	4.0	2.7	2.2	2.5	3.3	2.6	2.0	2.9
4	5.7	16.6	9.8	10.9	3.7	2.6	2.2	2.5	3.2	2.5	2.0	3.1
5	4.9	10.6	12.0	10.4	3.6	2.6	2.2	2.4	2.9	2.4	2.0	5.6
6	4.5	8.3	12.1	8.6	3.5	2.5	2.2	2.4	2.4	2.2	2.0	5.1
7	4.1	7.3	8.7	8.2	3.6	2.5	2.2	2.3	2.3	2.2	2.9	4.9
8	3.9	6.7	8.3	13.6	3.5	2.4	2.2	2.3	2.3	2.2	2.4	4.2
9	3.7	5.8	7.9	12.2	3.4	2.3	2.3	2.3	2.2	2.7	2.4	3.9
10	3.4	5.4	7.6	9.6	3.4	2.3	2.5	2.3	2.2	2.8	2.3	3.6
11	3.2	5.1	6.3	8.0	3.3	2.4	2.9	2.3	2.2	10.8	2.3	3.2
12	3.0	4.8	6.1	7.2	3.3	2.4	3.5	2.2	2.1	7.1	2.2	3.0
13	2.9	4.3	5.9	6.9	3.4	2.3	3.3	2.1	2.1	5.4	2.2	3.0
14	2.7	5.7	5.2	6.5	3.5	2.3	3.2	2.1	2.0	8.4	2.2	3.0
15	2.6	5.9	6.2	6.1	4.1	2.3	2.6	2.1	2.0	3.2	2.1	3.9
16	2.4	6.3	22.3	5.6	8.4	2.3	2.4	2.1	2.0	3.0	2.2	15.3
17	2.3	5.6	22.2	5.9	8.4	2.3	2.2	2.1	2.0	2.9	2.2	13.5
18	3.1	5.3	17.3	5.7	5.3	2.2	2.2	2.1	2.0	2.9	2.3	12.7
19	3.6	4.9	11.1	5.6	4.3	2.3	2.2	2.1	2.0	2.6	2.4	9.9
20	3.9	4.8	8.6	5.2	4.2	2.5	2.3	2.1	2.1	2.5	2.2	7.5
21	4.6	5.1	8.9	4.9	4.2	2.4	2.4	2.1	2.1	2.5	2.2	6.3
22	6.9	5.1	9.1	4.6	3.9	2.6	2.3	2.1	2.0	2.4	2.2	7.8
23	5.8	5.0	7.3	4.5	3.6	2.5	2.2	2.1	2.0	2.3	2.2	8.2
24	5.1	5.1	7.8	4.5	3.5	2.4	2.2	2.1	2.0	2.2	2.2	10.3
25	5.0	5.9	13.6	4.4	3.3	2.4	2.2	2.1	2.0	2.2	2.2	7.3
26	4.9	6.5	11.9	4.3	3.2	2.4	2.1	2.1	2.0	2.1	2.9	6.5
27	6.2	8.1	28.8	4.2	3.0	2.4	2.1	2.2	2.1	2.1	3.4	5.1
28	7.0	27.6	35.0	4.1	2.9	2.3	2.1	2.3	2.3	2.0	4.2	4.9
29	8.3	.....	29.2	4.3	2.8	2.3	2.1	2.5	2.2	2.0	3.5	4.5
30	8.1	.....	25.2	4.9	2.8	2.3	2.2	2.6	3.0	2.0	3.2	4.1
31	11.6	.....	24.0	.....	2.9	.....	2.2	2.5	.....	2.0	.....	4.9
1903												
1	5.9	5.8	23.8	8.2	3.0	2.8	2.4	4.8	1.5	1.3	1.6	1.4
2	6.4	4.9	18.1	7.0	3.1	2.7	2.2	6.1	1.5	1.2	1.6	1.4
3	7.7	6.4	12.6	6.3	3.0	2.7	2.1	4.6	1.5	1.2	1.5	1.4
4	7.4	8.8	12.0	5.8	2.9	2.8	2.1	3.0	1.5	1.3	1.5	1.4
5	6.1	12.9	13.3	5.1	2.8	2.9	2.0	2.9	1.5	1.3	1.5	1.4
6	5.6	12.0	11.1	4.9	2.7	2.9	1.9	2.4	1.5	1.3	1.5	1.5
7	4.9	20.6	9.8	4.7	2.8	3.1	3.6	2.8	1.5	1.3	1.4	1.6
8	4.5	31.6	12.3	4.7	3.1	3.2	3.4	2.9	1.4	2.8	1.4	1.6
9	4.3	26.8	15.1	6.6	3.0	3.4	2.8	2.8	1.4	2.1	1.3	1.5
10	4.1	20.5	12.4	6.3	2.8	2.8	2.9	3.7	1.4	1.8	1.3	1.5
11	10.6	22.0	16.3	5.6	2.7	2.9	2.8	2.1	1.4	1.6	1.4	1.5
12	14.7	20.5	15.8	5.2	3.3	2.8	2.9	1.9	1.4	1.5	1.6	1.5
13	11.3	16.9	15.2	4.6	5.0	2.5	2.8	1.9	1.4	1.5	1.7	1.5
14	7.9	11.7	14.6	5.8	12.9	2.4	2.8	1.8	1.6	1.5	1.6	1.6
15	6.5	9.6	13.9	5.7	17.8	2.3	2.3	2.7	1.7	1.4	1.5	1.6
16	5.8	22.9	12.2	4.8	17.7	2.2	2.1	3.5	1.7	1.4	1.3	1.6
17	5.3	26.4	10.9	4.4	9.4	2.1	2.0	5.1	1.6	1.4	1.3	1.6
18	4.9	24.5	8.2	4.2	7.2	2.0	2.0	4.7	1.6	1.4	1.3	1.5
19	4.6	16.6	7.3	4.0	5.8	2.0	2.8	3.8	1.5	1.3	1.4	1.5
20	4.3	12.4	6.8	3.9	4.9	1.9	3.8	3.4	1.5	1.3	1.4	1.5
21	4.2	9.9	6.3	5.5	4.4	1.9	2.3	2.7	1.6	1.3	1.4	1.5
22	4.0	8.1	7.0	5.1	4.0	2.7	1.9	2.4	1.6	1.3	1.3	1.6
23	3.9	7.3	6.8	4.3	3.7	3.4	1.7	2.2	1.5	1.3	1.3	1.6
24	3.8	6.7	6.3	3.9	3.5	2.6	1.6	2.1	1.5	1.3	1.4	1.6
25	4.0	5.8	5.9	3.7	3.2	2.8	2.4	2.0	1.5	1.3	1.4	1.7
26	3.8	5.2	5.4	3.6	3.1	2.9	1.7	1.9	1.5	1.3	1.4	2.0
27	3.8	5.9	5.1	3.5	3.0	3.4	1.7	1.8	1.5	1.3	1.4	1.9
28	6.0	27.2	5.1	3.3	2.9	3.3	1.6	1.8	1.4	1.3	1.4	1.7
29	6.4	.....	6.3	3.2	2.8	3.1	1.6	1.6	1.3	1.3	1.4	1.5
30	6.2	.....	7.7	3.0	2.7	2.6	1.5	1.5	1.3	1.3	1.4	1.5
31	5.9	.....	9.2	.....	2.9	.....	5.7	1.5	1.3	1.5	.....	1.5

Mean daily gage height, in feet, of Cahaba River at Centerville, Ala.—Contd.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1	1.5	2.9	2.6	2.2	1.6	1.5	1.3	1.6	1.2	1.0	0.9	1.1
2	1.5	2.9	2.5	2.3	1.6	1.4	1.4	1.6	1.2	1.0	.9	1.1
3	1.6	2.9	2.4	2.2	1.6	1.2	1.3	2.0	1.1	.9	1.3	1.1
4	1.5	2.7	2.3	2.1	1.6	1.2	1.5	2.2	1.7	.9	1.3	1.1
5	1.5	2.6	2.2	2.1	1.5	1.2	1.4	2.0	1.5	.9	1.1	2.0
6	1.5	2.8	3.0	2.1	1.5	1.2	1.3	2.0	1.4	.9	1.1	2.2
7	1.8	6.7	6.4	2.2	1.4	1.8	1.8	7.1	1.2	.9	1.0	2.0
8	1.9	11.5	7.0	2.6	1.5	2.5	1.2	5.5	1.3	.9	1.0	1.9
9	2.2	6.0	5.4	3.1	1.5	1.7	1.6	5.1	1.3	1.0	1.0	1.7
10	2.8	6.4	4.2	2.6	1.6	1.6	1.7	4.7	1.2	1.0	1.0	1.5
11	3.1	10.0	3.8	2.4	1.6	1.6	1.5	3.7	1.1	1.0	1.0	1.4
12	2.2	7.2	3.4	2.3	1.7	1.4	1.3	3.7	1.2	.9	1.0	1.4
13	2.0	5.5	3.1	2.2	1.6	1.3	1.2	3.3	1.1	.9	1.0	1.4
14	1.8	5.4	3.3	2.1	1.6	1.3	1.3	2.8	1.1	.9	1.0	1.3
15	1.8	4.6	5.4	2.1	1.5	1.2	1.2	5.6	1.1	.9	1.0	1.3
16	1.8	4.1	4.3	2.0	1.4	1.2	1.2	3.6	1.0	.9	1.0	1.2
17	2.9	3.3	3.9	2.0	1.4	1.1	1.3	2.5	1.0	.9	1.0	1.2
18	2.6	3.1	3.6	2.0	1.3	1.1	1.3	2.0	1.0	.9	1.0	1.2
19	2.4	3.0	3.5	1.9	1.3	1.1	1.2	1.8	1.0	.9	1.0	1.2
20	2.1	3.8	3.3	1.9	1.3	1.1	1.1	1.6	1.1	.9	1.0	1.2
21	2.0	3.3	3.0	1.8	1.3	1.0	1.1	1.4	1.1	.9	1.2	1.2
22	10.2	3.5	2.9	1.7	1.3	1.0	1.1	1.4	1.0	.9	1.2	1.1
23	8.8	3.3	2.8	1.7	1.2	1.0	1.6	1.3	1.0	.9	1.3	1.1
24	4.8	3.2	2.8	1.6	1.2	1.2	1.3	1.3	1.0	.8	1.3	1.1
25	3.4	3.1	2.7	1.6	1.2	1.3	1.3	1.2	1.0	.8	1.3	1.7
26	3.0	3.0	2.6	1.7	1.2	1.2	1.2	1.5	1.0	.8	1.2	2.0
27	2.4	2.9	2.4	1.7	1.2	1.3	1.4	1.3	1.0	.8	1.1	3.1
28	2.6	2.8	2.3	1.6	1.3	1.2	2.1	1.3	1.0	.8	1.1	4.7
29	2.7	2.7	2.2	1.6	1.2	1.1	1.7	1.2	1.0	.8	1.1	6.0
30	2.9	.....	2.1	1.6	1.4	1.0	1.7	1.5	1.0	.9	1.1	5.1
31	2.8	.....	2.0	.....	1.6	.....	1.6	1.3	.....	.9	.....	2.6
1905												
1	2.2	6.7	4.4	3.4	6.2	4.0	4.2	2.4	1.8	1.3	1.1	1.3
2	2.1	5.4	4.3	3.3	5.3	3.8	3.9	2.1	1.6	1.2	1.0	1.4
3	2.0	4.6	4.0	3.1	4.7	3.2	3.5	1.8	1.8	1.2	1.2	11.9
4	1.9	4.3	3.7	3.0	4.2	2.5	2.6	1.6	1.9	1.2	1.1	7.1
5	1.8	7.0	3.6	4.4	3.7	2.4	2.3	1.5	2.3	1.2	1.2	4.0
6	1.9	16.5	3.4	4.4	3.4	2.3	2.0	1.3	2.2	1.3	1.3	2.6
7	2.0	15.9	3.3	4.0	4.0	2.2	2.5	1.3	1.8	1.2	1.3	2.6
8	2.0	17.3	3.2	4.8	7.7	2.0	2.1	1.3	1.7	1.3	1.2	2.5
9	2.0	25.9	3.4	11.5	9.4	2.0	2.0	1.4	1.6	1.2	1.2	2.5
10	2.0	23.9	4.6	6.7	5.3	1.9	2.3	1.6	1.4	2.0	1.3	2.4
11	1.9	19.3	4.0	5.0	4.0	1.8	4.5	2.4	1.4	2.6	1.7	2.2
12	25.5	18.6	3.5	5.0	3.4	1.8	5.8	3.1	1.8	2.1	1.6	2.1
13	24.2	22.8	3.3	4.3	3.1	1.8	4.6	2.8	1.5	1.7	1.3	2.1
14	21.3	19.5	3.0	3.9	2.8	1.8	3.0	3.1	1.5	1.6	1.4	2.1
15	11.0	15.6	2.9	4.1	2.9	3.2	2.5	3.0	1.4	1.6	1.5	3.1
16	7.0	11.2	2.8	5.2	9.5	2.0	2.1	1.9	1.3	1.6	1.4	3.9
17	5.5	9.1	2.8	4.3	7.2	2.5	1.9	3.7	1.3	1.7	1.3	3.8
18	4.7	7.3	2.7	3.8	5.4	1.9	1.8	4.6	1.3	1.5	1.2	3.5
19	4.3	6.5	2.6	3.5	4.4	2.0	1.6	2.8	1.3	1.5	1.2	3.2
20	4.2	7.5	6.6	3.3	3.6	1.9	1.6	4.8	1.7	1.4	1.4	3.5
21	3.9	12.2	20.4	3.2	5.8	2.0	1.5	4.6	1.5	1.3	1.3	6.5
22	3.5	12.5	14.7	4.2	10.3	1.8	1.6	3.5	1.3	1.2	1.3	7.5
23	3.2	9.6	11.5	3.7	12.0	1.7	3.3	3.4	1.2	1.2	1.3	7.9
24	3.0	7.5	8.3	3.3	12.2	1.8	2.5	3.0	1.1	1.1	1.3	10.5
25	2.8	6.7	6.7	3.1	8.8	1.7	3.3	3.1	1.1	1.3	1.4	8.5
26	2.6	5.9	5.4	5.1	6.6	1.6	2.7	3.7	1.2	1.9	1.4	6.4
27	2.4	5.3	4.7	5.5	5.7	2.0	2.3	4.1	1.2	1.6	1.3	4.8
28	2.3	4.6	4.5	6.7	5.2	1.8	1.8	3.0	1.2	1.4	1.3	4.5
29	2.6	.....	4.3	6.7	4.4	2.2	1.7	2.4	1.2	1.3	1.4	6.3
30	6.5	.....	4.0	6.5	3.8	4.4	1.8	2.1	1.3	1.2	1.5	5.4
31	8.5	.....	3.7	.....	3.8	.....	2.5	1.9	.....	1.2	.....	4.6

Daily gage height, in feet, of Cahaba River at Centerville, Ala.

Day	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1906												
1	4.1	4.0	4.7	18.7	2.8	2.2	1.9	4.2	3.9	22.9	2.8	2.9
2	3.9	3.5	3.9	13.5	2.8	2.2	2.3	3.4	2.8	21.2	2.7	2.8
3	12.3	3.3	18.2	10.7	2.8	2.3	3.0	3.2	2.7	21.3	2.6	2.8
4	20.9	3.1	20.4	8.7	3.2	2.4	2.2	3.4	2.6	16.2	2.5	2.7
5	17.5	3.0	16.3	7.8	7.6	2.2	1.7	3.2	2.5	10.8	2.7	2.8
6	12.8	2.9	9.7	7.1	5.3	2.3	1.6	2.8	2.1	21.6	2.7	2.8
7	7.0	2.9	6.9	6.5	5.8	2.2	1.6	3.2	2.4	17.8	2.6	2.9
8	6.1	2.9	8.0	5.9	7.8	2.3	1.6	3.0	2.6	12.5	2.6	2.7
9	5.8	2.8	8.1	5.8	5.9	2.1	1.9	2.8	3.2	9.4	2.6	2.9
10	5.3	2.8	6.7	6.3	4.2	2.0	4.4	2.8	2.8	7.4	2.5	3.0
11	4.8	2.6	5.7	6.5	3.7	1.9	3.4	2.6	3.5	6.3	2.4	5.6
12	5.2	2.5	5.5	5.4	3.4	1.8	3.9	4.4	5.0	5.6	2.5	7.2
13	5.7	2.5	4.7	4.9	3.2	1.7	2.9	3.4	5.5	5.1	2.5	5.2
14	5.2	2.7	4.5	4.6	3.0	2.0	10.0	4.2	6.2	4.6	2.4	4.4
15	4.9	2.9	5.3	4.4	2.9	3.0	8.1	5.1	4.8	4.4	2.9	4.0
16	4.5	2.6	5.0	4.3	2.8	2.8	5.7	4.6	3.0	4.1	2.9	3.6
17	4.2	2.5	4.6	4.1	2.7	2.6	5.5	3.6	2.5	4.0	2.7	3.9
18	4.2	2.4	4.1	3.9	2.6	2.4	11.7	3.1	2.3	4.1	3.1	5.0
19	4.2	2.3	33.8	3.8	2.7	2.2	15.8	2.6	2.1	4.6	9.6	4.9
20	4.3	2.2	30.8	3.7	2.6	2.0	10.7	2.4	2.3	4.8	9.8	4.8
21	4.0	2.4	27.0	3.6	2.5	1.9	6.1	2.2	3.6	4.0	6.3	4.7
22	4.7	2.5	19.5	3.9	2.5	1.8	5.0	2.4	3.8	3.7	5.1	4.5
23	17.0	2.6	14.6	3.7	2.5	1.7	8.4	2.8	3.5	3.5	4.3	4.2
24	16.0	2.7	10.0	3.5	2.5	1.6	9.6	2.2	3.3	3.3	3.9	3.9
25	10.4	6.6	8.4	3.4	2.7	1.6	5.7	2.0	3.7	3.2	3.7	3.7
26	7.4	5.6	7.4	3.3	2.7	1.6	4.2	2.4	3.4	3.1	3.3	3.5
27	6.1	5.2	6.9	3.1	2.8	2.6	3.5	1.9	3.1	3.1	3.2	3.5
28	5.2	4.6	24.6	3.0	2.6	3.5	3.1	3.2	20.7	3.0	3.2	3.9
29	4.7	.....	24.5	3.0	2.5	2.9	4.3	2.5	33.7	2.8	3.0	6.5
30	4.0	.....	26.5	2.9	2.4	2.2	6.9	3.2	29.6	2.8	3.0	5.9
31	4.1	.....	23.4	.....	2.3	.....	5.3	2.4	.....	2.9	.....	20.0
1907.												
1	18.3	9.5	17.6	3.0	9.5	11.6	2.7	2.3	1.5	2.4	1.8	4.2
2	14.0	22.0	22.5	2.7	8.6	10.5	2.7	1.9	1.6	2.3	3.8	3.0
3	9.3	22.8	20.2	2.7	7.5	7.3	2.5	1.7	2.8	2.2	3.7	2.9
4	7.4	16.6	16.5	2.7	7.3	6.0	2.4	1.9	2.0	2.1	3.5	2.6
5	6.7	21.5	10.7	7.4	6.9	4.8	2.8	2.0	1.9	2.1	2.0	2.6
6	5.7	18.8	8.5	5.3	6.1	4.7	2.5	1.9	1.5	1.7	1.9	2.5
7	5.3	12.5	7.2	4.6	16.1	4.0	2.3	2.3	1.4	1.4	1.7	2.4
8	4.8	10.0	6.3	4.0	14.9	3.8	2.2	2.0	1.4	2.4	1.7	2.4
9	4.7	8.2	5.7	3.5	12.5	3.5	1.7	2.4	2.0	2.1	1.7	2.7
10	4.5	7.2	5.2	3.3	10.6	4.0	2.0	2.3	2.0	2.0	1.6	4.2
11	4.4	6.2	4.8	3.0	10.5	3.2	2.0	2.5	1.9	1.9	1.5	5.9
12	4.2	5.4	4.3	3.0	7.5	4.0	3.1	2.7	1.9	1.8	1.5	4.3
13	4.0	5.3	4.3	3.0	7.2	3.4	2.7	2.9	1.8	1.7	1.4	4.7
14	3.8	4.7	4.2	3.0	6.3	3.8	2.4	2.2	1.8	1.6	1.4	6.9
15	3.7	4.2	5.7	3.0	25.2	4.8	3.3	2.1	1.9	1.5	1.3	6.9
16	3.5	4.2	5.2	2.8	23.3	3.3	2.9	2.0	1.8	1.6	1.4	5.8
17	3.5	4.0	4.5	11.5	18.1	3.4	2.5	3.0	1.6	1.4	1.4	6.4
18	3.5	4.0	4.3	10.5	13.2	3.2	2.4	1.8	1.5	1.4	1.4	4.4
19	3.0	4.0	3.8	17.8	8.9	3.0	1.9	1.6	1.5	1.4	1.5	4.3
20	5.8	3.8	3.7	14.8	8.5	2.9	1.3	1.5	1.4	1.4	1.6	4.3
21	7.1	3.6	3.7	8.7	8.2	2.4	2.0	2.0	1.4	1.4	2.4	3.4
22	5.6	3.2	3.5	9.7	7.0	2.4	2.4	1.9	5.0	1.4	6.0	6.9
23	4.7	3.5	3.5	18.3	5.9	3.5	2.4	1.7	7.9	1.4	11.2	6.0
24	4.4	3.5	3.3	13.5	4.1	3.3	2.4	1.7	12.0	1.4	10.5	5.9
25	4.0	7.3	3.3	10.0	7.5	2.9	2.4	1.6	11.5	1.4	7.9	5.4
26	4.0	5.7	3.3	9.5	7.9	2.4	1.9	1.4	7.4	1.2	6.9	4.6
27	4.0	5.4	3.2	8.3	8.5	2.4	2.0	1.4	2.9	1.2	4.4	4.0
28	3.6	7.0	3.0	8.9	7.8	2.3	4.2	1.4	2.6	1.3	3.4	6.0
29	3.4	.....	3.0	7.0	5.5	2.3	3.8	1.4	2.5	1.4	3.4	14.1
30	4.7	.....	3.0	7.6	5.1	2.5	3.7	1.4	2.4	1.6	3.3	16.6
31	5.7	.....	3.0	.....	7.0	.....	3.5	1.4	.....	1.7	.....	16.0

Day.	Jan.	Feb.	Day.	Jan.	Feb.	Day.	Jan.	Feb.	Day.	Jan.	Feb.
1908.			1908.			1908.			1908.		
1	12.6	15.3	9	8.1	.....	17	6.1	.....	25	3.7	.....
2	8.8	12.9	10	6.9	.....	18	5.8	.....	26	3.8	.....
3	7.0	10.8	11	7.7	.....	19	5.9	.....	27	3.7	.....
4	6.0	9.6	12	13.9	.....	20	5.2	.....	28	3.5	.....
5	8.7	8.5	13	12.7	.....	21	4.7	.....	29	3.4	.....
6	10.2	.....	14	10.0	.....	22	4.4	.....	30	3.3	.....
7	10.2	.....	15	7.4	.....	23	4.2	.....	31	3.7	.....
8	10.2	.....	16	6.9	.....	24	3.9	.....			

Rating table for Cahaba River at Centerville, Ala., for 1901.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
1.1	326	2.6	866	5.4	1,874	8.4	2,954
1.2	362	2.7	902	5.6	1,946	8.8	3,098
1.3	398	2.8	938	5.8	2,018	9.0	3,170
1.4	434	2.9	974	6.0	2,090	9.2	3,242
1.5	470	3.0	1,010	6.2	2,162	9.4	3,314
1.6	506	3.2	1,082	6.4	2,234	9.6	3,386
1.7	542	3.4	1,154	6.6	2,306	9.8	3,458
1.8	578	3.6	1,226	6.8	2,378	10.0	3,530
1.9	614	3.8	1,298	7.0	2,450	11.0	3,890
2.0	650	4.0	1,370	7.2	2,522	12.0	4,250
2.1	686	4.2	1,442	7.4	2,594	13.0	4,610
2.2	722	4.4	1,514	7.6	2,666	14.0	4,970
2.3	758	4.6	1,586	7.8	2,738	15.0	5,330
2.4	794	5.0	1,730	8.0	2,810	16.0	5,690
2.5	830	5.2	1,802	8.2	2,882		

Rating table for Cahaba River at Centerville, Ala., for 1902.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
1.0	245	3.8	1,230	9.0	3,050	23.0	7,950
1.2	320	4.0	1,300	10.0	3,400	24.0	8,300
1.4	390	4.2	1,370	11.0	3,750	25.0	8,650
1.6	460	4.4	1,440	12.0	4,100	26.0	9,000
1.8	530	4.6	1,510	13.0	4,450	27.0	9,350
2.0	600	4.8	1,580	14.0	4,800	28.0	9,700
2.2	670	5.0	1,650	15.0	5,150	29.0	10,050
2.4	740	5.2	1,720	16.0	5,500	30.0	10,400
2.6	810	5.4	1,790	17.0	5,850	31.0	10,750
2.8	880	5.6	1,860	18.0	6,200	32.0	11,100
3.0	950	5.8	1,930	19.0	6,550	33.0	11,450
3.2	1,020	6.0	2,000	20.0	6,900	34.0	11,800
3.4	1,090	7.0	2,350	21.0	7,250	35.0	12,150
3.6	1,160	8.0	2,700	22.0	7,600		

Rating table for Cahaba River at Centerville, Ala., for 1903.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
1.00	143	2.70	640	5.60	1,795	9.20	3,235
1.10	163	2.80	676	5.80	1,875	9.60	3,395
1.20	184	2.90	715	6.00	1,955	9.80	3,475
1.30	206	3.00	755	6.20	2,035	9.90	3,515
1.40	229	3.20	835	6.40	2,115	10.00	3,555
1.50	253	3.40	915	6.60	2,195	11.00	3,955
1.60	279	3.60	995	6.80	2,275	12.00	4,355
1.70	306	3.80	1,075	7.00	2,355	13.00	4,755
1.80	335	4.00	1,155	7.20	2,435	14.00	5,155
1.90	365	4.20	1,235	7.40	2,515	15.00	5,555
2.00	397	4.40	1,315	7.60	2,595	16.00	5,959
2.10	430	4.60	1,395	7.80	2,675	18.00	6,755
2.20	463	4.80	1,475	8.00	2,755	20.00	7,555
2.30	497	5.00	1,555	8.20	2,835	22.00	8,355
2.40	532	5.20	1,635	8.80	3,075	24.00	9,155
2.50	568	5.40	1,715	9.00	3,155	26.00	9,955
2.60	604						

Rating table for Cahaba River at Centerville, Ala., for 1904.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
0.80	90	1.70	318	2.50	560	3.60	911
.90	111	1.80	348	2.60	591	3.80	982
1.00	133	1.90	378	2.70	622	4.00	1,056
1.10	156	2.00	408	2.80	653	4.20	1,131
1.20	180	2.10	438	2.90	684	4.40	1,207
1.30	205	2.20	468	3.00	715	4.60	1,285
1.40	232	2.30	498	3.20	779	4.80	1,366
1.50	260	2.40	529	3.40	844	5.00	1,450
1.60	289						

The above table is based upon discharge measurements made during 1903 and 1904. It is fairly well defined between gage heights 0.8 foot and 3.5 feet. Above 3.5 feet the curve is uncertain, as the high-water measurements are inconsistent.

Rating table for Cahaba River at Centerville, Ala., for 1905.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
1.00	160	2.10	459	3.20	811	5.20	1,640
1.10	185	2.20	489	3.40	883	5.40	1,740
1.20	211	2.30	519	3.60	957	5.60	1,842
1.30	237	2.40	549	3.80	1,033	5.80	1,946
1.40	263	2.50	580	4.00	1,110	6.00	2,050
1.50	290	2.60	611	4.20	1,189	6.20	2,158
1.60	317	2.70	643	4.40	1,269	6.40	2,266
1.70	345	2.80	675	4.60	1,352	6.60	2,374
1.80	373	2.90	707	4.80	1,442	6.80	2,482
1.90	401	3.00	740	5.00	1,540	7.00	2,590
2.00	430						

The above table is based on discharge measurements made during 1903-1905. It is well defined between gage heights 1 foot and 7 feet. Above gage height 7 feet the rating curve is a tangent, the difference being 55 per tenth.

Rating table for Cahaba River at Centerville, Ala., for 1906.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
1.60	280	2.60	527	4.20	1,072	6.00	1,890
1.70	301	2.70	555	4.40	1,156	6.20	1,990
1.80	323	2.80	583	4.60	1,244	6.40	2,090
1.90	346	2.90	611	4.80	1,332	6.60	2,192
2.00	370	3.00	640	5.00	1,420	6.80	2,296
2.10	395	3.20	701	5.20	1,512	7.00	2,400
2.20	421	3.40	766	5.40	1,604	8.00	2,950
2.30	447	3.60	836	5.60	1,698	9.00	3,500
2.40	473	3.80	912	5.80	1,794	10.00	4,050
2.50	500	4.00	990				

Note.—The above table is based on three discharge measurements made during 1906 and on the forms of previous curves. It is not well defined. Above gage height 7 feet it is a tangent, the difference being 55 per tenth.

Rating table for Cahaba River at Centerville, Ala., for 1907 and 1908.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
1.20	152	2.80	576	5.80	1,794	12.00	5,150
1.30	176	2.90	607	6.00	1,890	13.00	5,700
1.40	200	3.00	638	6.20	1,990	14.00	6,250
1.50	225	3.20	701	6.40	2,090	15.00	6,800
1.60	250	3.40	766	6.60	2,192	16.00	7,350
1.70	275	3.60	836	6.80	2,296	17.00	7,900
1.80	300	3.80	912	7.00	2,400	18.00	8,450
1.90	326	4.00	990	7.20	2,510	19.00	9,000
2.00	352	4.20	1,072	7.40	2,620	20.00	9,550
2.10	378	4.40	1,156	7.60	2,730	21.00	10,100
2.20	405	4.60	1,244	7.80	2,840	22.00	10,650
2.30	432	4.80	1,332	8.00	2,950	23.00	11,200
2.40	460	5.00	1,420	9.00	3,500	24.00	11,750
2.50	488	5.20	1,512	10.00	4,050	25.00	12,300
2.60	517	5.40	1,604	11.00	4,600	26.00	12,850
2.70	546	5.60	1,698				

Note.—The above table is not applicable for obstructed-channel conditions. It is based on one discharge measurement made during 1907 and the form of previous curves. It is not well defined. Above gage height 7 feet the rating curve is a tangent, the difference being 55 per tenth.

Estimated monthly discharge of Cahaba River at Centerville, Ala.

[Drainage area, 1,040 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-feet per square mile.	Depth in inches.
1902					
January	4,660	705	1,739	1.67	1.93
February	9,560	1,405	2,955	2.84	2.96
March	12,150	1,720	4,799	4.61	5.31
April	5,290	1,335	2,464	2.37	2.64
May	2,840	880	1,282	1.23	1.42
June	880	670	749	.72	.80
July	1,125	635	730	.70	.81
August	880	635	690	.66	.76
September	1,055	600	689	.66	.74
October	3,680	600	939	.90	1.04
November	1,370	600	746	.72	.80
December	5,255	775	1,974	1.90	2.19
The year	12,150	600	1,646	1.58	21.40
1903					
January	5,435	1,075	1,940	1.87	2.16
February	12,195	1,515	5,412	5.20	5.41
March	9,075	1,595	3,849	3.70	4.27
April	2,885	755	1,514	1.46	1.63
May	6,675	640	1,518	1.44	1.68
June	915	365	648	.62	.69
July	1,885	253	560	.54	.62
August	1,995	253	721	.69	.80
September	306	206	252	.24	.27
October	676	184	243	.23	.27
November	306	206	237	.23	.26
December	397	229	268	.26	.30
The year	12,195	184	1,430	1.38	18.36

Estimated monthly discharge of Cahaba River at Centerville, Ala.—Cont'd.

[Drainage area, 1,040 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-feet per square mile.	Depth in inches.
1904					
January	4,215	260	721	0.693	0.799
February	5,060	591	1,290	1.24	1.34
March	2,395	408	866	.833	.960
April	747	289	419	.403	.450
May	318	180	241	.232	.268
June	560	133	205	.197	.220
July	438	156	233	.224	.258
August	2,445	180	623	.599	.691
September	318	133	165	.159	.177
October	133	.90	110	.106	.122
November	205	111	153	.147	.164
December	1,900	156	397	.382	.440
The year	5,060	90	452	.435	5.89
1905					
January	12,760	373	2,102	2.02	2.33
February	12,980	1,352	5,129	4.93	5.13
March	9,960	611	1,774	1.71	1.97
April	5,065	740	1,440	1.38	1.54
May	5,450	675	2,024	1.95	2.25
June	1,269	317	521	.501	.559
July	1,946	290	653	.628	.724
August	1,442	287	665	.639	.737
September	519	185	291	.280	.312
October	611	185	280	.269	.310
November	345	160	241	.232	.259
December	5,285	287	1,496	1.44	1.66
The year	12,980	160	1,385	1.33	17.78
1906					
January	10,000	950	2,680	2.58	2.97
February	2,190	421	735	.707	.74
March	17,100	950	5,690	5.47	6.31
April	8,840	611	1,850	1.78	1.99
May	2,840	447	847	.814	.94
June	800	280	426	.410	.46
July	7,240	280	1,740	1.67	1.92
August	1,470	346	683	.657	.76
September	17,100	395	2,080	2.00	2.23
October	11,100	583	3,070	2.95	3.40
November	3,940	473	913	.878	.98
December	9,550	555	1,330	1.28	1.48
The year	17,100	280	1,840	1.77	24.18
1907					
January	8,620	640	1,760	1.69	1.95
February	11,600	701	3,300	3.17	3.30
March	10,900	638	2,320	2.23	2.57
April	8,620	546	2,620	2.52	2.81
May	12,400	1,030	3,840	3.69	4.25
June	4,930	432	1,120	1.08	1.20
July	1,070	176	544	.523	.60
August	638	200	345	.332	.38
September	5,150	200	833	.801	.89
October	460	152	269	.259	.30
November	4,710	176	887	.853	.95
December	7,680	460	1,840	1.77	2.04
The year	12,400	152	1,640	1.58	21.24
1908					
January	6,200	733	2,440	2.35	2.71
February 1-5	6,960	3,220	4,830	4.64	.86

Note.—Owing to a rather poor rating curve and somewhat doubtful gage heights, values at this station can not be classed as better than C.

TOMBIGBEE RIVER AT COLUMBUS, MISS.

Location.—At the county highway bridge at Columbus, Miss., 2 miles above the mouth of Luxapalilla Creek and about 6 miles below the mouth of Tibbee River.

Records available.—July 13, 1905, to December 31, 1912. Also for 1900 to 1904, using the gage heights furnished by the United States Weather Bureau, except for especially low stages. These are not published, but may be obtained from the United States Weather Bureau.

Drainage area.—4,440 square miles.

Gage.—Chain gage was installed by the United States Geological Survey on July 13, 1905, at the highway bridge 1,000 feet above the original site of the gage of the United States Weather Bureau. The new gage was set to read the same as the first United States Weather Bureau gage at low water, which makes it practically on the same datum, as the low-water surface is almost level.

Channel.—The right bank is high and seldom overflows. The left bank overflows only under the bridge approach at a gage height of about 20 feet. The bed of the stream is of soft limestone or chalk and conditions of flow are somewhat changeable at low stages.

Discharge measurements.—Made from the wagon bridge.

Accuracy.—Estimates may be somewhat in error at low stages due to changes at controlling section.

Discharge measurements of Tombigbee River at Columbus, Miss.

Date.	Gage height. Feet.	Discharge. Sec.-feet.	Date.	Gage height. Feet.	Discharge. Sec.-feet.
1903			June 22	— .82	1,808
March 9	15.50	26,450	July 13	1.11	3,403
March 12	17.30	29,020	November 23	— 2.00	987
May 18	12.50	17,800	1906		
July 16	— 1.70	1,340	April 21	— 0.64	2,040
July 17	— 1.80	1,278	April 23	— .82	1,910
September 22	— 3.70	252	April 26	— 1.10	1,680
September 25	— 3.70	268	May 3	— 1.38	1,590
1904			September 18	— 3.40	424
January 13	— 1.80	1,137	1907		
January 16	— 2.00	1,072	October 22	— 3.51	366
February 25	— .30	2,290	1908		
March 23	.30	2,913	July 17	— 2.62	770
August 13	— .50	2,270	1909		
October 29	— 3.80	162	August 21	— 2.93	646
October 29	— 3.80	58	1911		
1905			August 25	1.06	3,650
February 15	20.32	31,880	November 11	— 2.42	980
February 15	20.05	30,890	November 11	— 2.41	951
February 18	13.70	19,430	1912		
			April 8	17.78	24,500

Daily gage height, in feet, of Tombigbee River at Columbus, Miss.

Day.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1905						
1	.....	−0.0	−0.9	−2.7	−1.9	−2.2
2	.....	−1.1	−2.0	−2.9	−2.2	−2.0
3	.....	−1.45	−1.9	− .9	−2.3	−1.3
4	.....	−1.45	−2.1	− .2	−2.4	− .4
5	.....	−1.5	−1.8	−1.0	−2.5	− .0
6	.....	−1.95	−2.0	−1.2	−2.4	.4
7	.....	−2.4	−2.2	−1.0	−2.4	.4
8	.....	−2.25	−2.05	−1.4	−2.3	.0
9	.....	−1.8	−2.0	−2.1	−2.4	− .4
10	.....	−1.55	−2.9	−1.9	−2.1	− .9
11	.....	4.9	−2.7	−1.4	.7	−1.1
12	.....	5.7	−2.1	− .9	.7	−1.2
13	1.1	4.7	−2.0	−1.0	.8	−1.1
14	.95	4.6	−1.6	− .7	.9	−1.0
15	− .3	3.3	−1.7	− .7	.6	4.8
16	−1.25	3.1	−1.7	1.9	− .2	6.8
17	−1.9	3.3	−1.9	1.3	− .9	6.0
18	−2.2	3.2	−2.3	.6	−1.4	5.9
19	−2.5	2.55	−2.6	.2	−1.6	5.9
20	−2.65	1.3	−2.4	− .6	−1.7	5.9
21	−2.8	3.5	−1.5	−1.6	−1.9	7.1
22	−2.95	.7	−2.4	−2.1	−2.0	7.0
23	−3.0	.4	−2.6	−2.3	−2.0	6.4
24	−2.95	− .05	−2.7	−2.4	−2.0	7.1
25	−2.05	+ .25	−2.6	−2.5	−2.0	6.8
26	−2.3	1.75	−2.6	−1.6	−2.1	6.5
27	−2.4	2.2	−2.9	−1.8	−2.2	6.0
28	−2.15	1.9	−3.0	−1.9	−2.3	5.0
29	−2.05	.8	−3.1	−1.4	−2.3	4.8
30	−2.55	− .7	−3.2	−1.6	−2.2	4.1
31	−2.15	−1.5	.....	−1.8	.....	3.5

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July	Aug.	Sept.	Oct.	Nov.	Dec.
1906												
1	3.7	1.5	3.3	18.2	−1.3	−2.3	−3.3	−2.6	−3.2	6.8	−2.3	−0.4
2	3.3	.9	2.8	18.2	−1.4	−2.4	−3.2	−2.3	−3.4	7.7	−2.4	− .5
3	5.4	.3	4.0	17.3	−1.6	−2.2	−3.3	−2.2	−3.4	8.3	−2.5	− .9
4	9.6	− .1	4.4	15.6	− .9	−1.1	−3.4	−2.1	−3.4	8.2	−2.5	−1.2
5	11.0	− .3	4.4	13.0	+6.9	− .6	−3.4	−2.3	−3.5	7.6	−2.6	−1.3
6	9.9	− .6	4.7	9.2	8.0	− .9	−3.3	−2.7	−3.5	11.2	−2.6	−1.2
7	10.3	− .7	4.6	6.0	8.9	−1.6	−3.4	−2.9	−3.5	12.3	−2.6	−1.1
8	10.4	− .8	4.0	4.0	9.6	−1.9	−3.5	−3.2	−3.0	11.1	−2.6	− .6
9	9.0	− .9	2.9	2.8	8.9	−2.2	−3.5	−3.2	−2.8	9.0	−2.7	− .5
10	7.2	−1.0	2.0	2.1	7.8	−2.3	−3.5	−3.2	−3.1	9.2	−2.7	+ .2
11	5.2	−1.1	1.4	1.7	6.3	−2.5	−3.5	−3.2	−3.3	8.1	−2.7	2.7
12	4.8	−1.2	.9	1.5	4.5	−2.7	−3.5	−2.8	−3.3	6.0	−2.7	2.6
13	4.6	−1.2	.3	1.2	2.3	−2.9	−3.5	−2.6	−3.3	3.3	−2.7	1.5
14	4.2	−1.1	− .1	.9	− .1	−3.0	−3.2	−2.7	−3.4	1.5	−2.7	1.4
15	3.8	−1.1	+5.2	.7	−1.0	−2.6	−2.9	−2.5	−3.5	.4	−2.6	1.4
16	3.3	− .9	9.1	.6	−1.3	−1.3	−2.7	−1.5	−3.5	− .5	−2.5	1.3
17	2.4	− .9	9.9	.7	−1.5	−1.2	− .9	−1.6	−3.5	−1.1	−2.4	1.3
18	2.0	−1.0	10.3	.5	−1.7	−2.0	+2.0	−1.7	−3.4	−1.4	−1.3	4.6
19	2.3	−1.1	13.0	.1	−2.0	−2.3	3.7	−1.8	−3.4	−1.0	+2.1	5.5
20	1.9	−1.2	16.8	− .5	−1.9	+2.6	3.2	−2.2	−3.4	− .2	6.1	5.8
21	1.7	−1.3	16.6	− .7	−2.1	−3.0	2.3	−2.6	−3.4	+ .3	6.5	6.0
22	2.9	−1.2	15.7	− .8	−2.2	−3.1	1.3	−2.4	−3.2	.6	6.8	5.3
23	6.4	− .9	14.5	− .9	−2.2	−3.3	.8	−2.3	−2.4	.1	7.1	5.0
24	6.6	− .3	12.6	− .8	−2.3	−3.3	.4	−2.7	−1.6	− .3	6.6	4.3
25	6.7	+2.4	9.4	− .8	−2.0	−3.3	− .6	−3.0	−1.0	− .7	5.7	3.3
26	7.1	3.5	5.8	−1.0	−2.1	−3.3	−1.3	−2.9	− .6	− .9	4.2	2.3
27	7.0	3.4	4.3	−1.3	−1.9	−3.3	−1.6	−3.0	− .3	−1.1	3.2	1.4
28	6.0	3.8	12.1	−1.4	−1.3	−3.2	−2.2	−3.2	+3.6	−1.5	2.1	.5
29	4.8	.....	14.0	0	−1.8	−3.2	−2.4	−3.0	8.5	−1.8	1.2	.2
30	3.5	.....	16.0	−1.0	−1.9	−3.2	−2.6	−3.1	7.3	−2.1	.1	.1
31	2.5	.....	17.7	.....	−2.1	.....	−2.8	−3.2	.....	−2.3	.....	4.3

Daily gage height, in feet, of Tombigbee River at Columbus, Miss.,

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1907.												
1	5.3	6.8	11.6	−0.7	6.9	9.2	−1.9	−2.2	−2.5	−2.4	−2.5	−1.8
2	4.9	15.7	14.6	− .8	11.7	9.0	−2.0	−2.4	−2.5	−2.4	−2.5	−2.0
3	5.0	15.4	15.7	− .7	12.1	9.6	−1.3	−2.5	−2.5	−2.5	−2.3	−2.1
4	4.8	14.6	15.9	− .8	12.3	10.4	−1.5	−2.7	−2.6	−2.6	−2.1	−2.2
5	4.4	14.4	16.3	− .9	13.8	10.8	−1.6	−2.9	−2.6	−2.5	−2.9	−2.2
6	3.9	14.0	16.4	− .1	13.2	10.3	−1.6	−3.0	−2.7	−2.6	−2.6	−2.3
7	3.5	12.7	16.0	1.0	13.9	8.9	−1.5	−3.2	−2.7	−2.6	−2.7	−2.5
8	2.9	10.5	14.5	1.5	15.0	7.2	−1.8	−3.2	−2.7	−2.5	−3.0	−2.6
9	2.3	8.0	12.0	1.7	15.1	5.4	−2.2	−3.3	−2.6	−2.5	−3.2	−2.5
10	1.7	5.7	9.3	1.3	15.2	3.5	−2.5	−3.3	−2.6	−3.0	−3.1	−2.1
11	1.4	4.7	7.3	.6	15.7	1.4	−2.7	−3.3	−2.7	−2.8	−3.2	−1.7
12	1.4	3.9	5.8	− .1	15.6	2.8	−2.7	−3.2	−2.7	−2.4	−3.0	−1.4
13	1.6	2.8	3.8	− .5	14.6	1.7	−2.5	−3.2	−2.6	−2.5	−2.5	−1.1
14	1.8	1.7	2.5	− .9	12.5	1.0	−1.7	−3.3	−2.6	−2.9	−2.5	−1.0
15	1.6	.9	4.1	−1.2	12.0	1.9	− .5	−3.0	−2.6	−2.1	−2.6	− .5
16	1.2	.5	6.2	−1.4	13.8	3.6	− .9	−3.2	−2.6	−3.2	−2.9	− .7
17	.8	.2	7.0	−1.0	13.4	3.4	−1.3	−3.8	−2.6	−3.3	−2.7	− .8
18	.4	.0	7.5	1.5	13.3	2.1	−1.6	−3.4	−2.6	−2.5	−2.9	− .9
19	.2	− .2	7.2	2.7	14.2	0.6	−1.9	−3.5	−2.6	−2.6	−3.0	−1.1
20	.2	− .3	6.3	3.4	14.5	− .3	−2.2	−3.5	−3.7	−3.5	−3.0	−1.2
21	1.0	− .4	5.3	3.0	13.6	− .9	−2.3	−3.5	−3.7	−3.5	−2.7	−1.6
22	1.8	− .5	4.0	2.5	11.4	− .6	−2.4	−3.2	−3.7	−3.5	−1.9	−1.7
23	2.3	− .6	3.1	2.3	8.9	− .3	−2.4	−3.3	−3.6	−3.5	−1.6	−1.7
24	2.1	− .7	2.3	1.9	6.8	− .9	−2.5	−3.3	−2.7	−3.5	− .7	−1.0
25	1.8	1.3	1.3	1.3	4.6	−1.1	−2.4	−3.2	−2.4	−3.5	− .6	− .4
26	1.1	5.5	.5	.9	2.3	−1.1	−2.6	−3.2	−2.0	−3.5	− .5	− .2
27	.4	7.1	.2	.3	6.8	−1.2	−2.8	−3.3	−2.1	−3.5	− .7	.1
28	− .1	8.1	− .1	.0	10.2	−1.2	−1.0	−3.3	−2.6	−3.5	− .9	.1
29	− .4	.....	− .3	− .2	9.6	−1.2	−1.1	−3.3	−2.0	−3.6	−1.3	− .2
30	− .7	.....	− .5	2.9	9.9	−1.6	−1.7	−3.3	−3.2	−3.5	−1.7	− .4
31	− .6	.....	− .6	.....	9.8	.....	−1.8	−3.4	.....	−3.5	.....	1.5
1908												
1	2.2	2.3	6.2	11.4	7.9	0.0	−2.5	−1.8	−2.9	−3.3	−3.6	−2.3
2	4.2	6.0	4.8	8.3	5.2	− .2	−2.6	−2.0	−3.1	−3.4	−3.6	−2.7
3	4.9	6.0	4.0	5.8	3.5	− .2	−2.7	−1.4	−3.1	−3.4	−3.6	−2.9
4	4.9	6.1	4.0	3.4	2.5	− .2	−2.5	.3	−3.2	−3.5	−3.6	−2.9
5	5.3	5.4	4.4	2.0	2.8	6.0	−2.4	1.5	−3.3	−3.5	−3.5	−2.8
6	6.3	6.6	5.0	1.4	13.5	8.7	−1.7	1.4	−3.3	−3.6	−3.5	−2.7
7	6.7	6.9	5.9	1.1	14.7	9.0	−1.1	1.1	−3.4	−3.6	−3.5	1.8
8	6.7	6.6	6.9	1.6	14.9	10.0	−1.1	2.0	−3.4	−3.6	−3.5	4.7
9	6.0	6.0	7.7	2.3	16.4	10.6	− .4	2.1	−3.4	−3.6	−3.5	5.2
10	4.9	6.9	7.6	2.5	17.1	10.0	− .2	1.6	−3.5	−3.6	−3.5	5.2
11	4.0	8.4	6.9	1.8	16.3	8.1	.6	.9	−3.5	−3.6	−3.6	5.0
12	3.9	8.4	6.4	.8	13.7	5.4	.4	1	−3.5	−3.5	−3.5	3.4
13	4.0	10.4	5.6	.3	8.8	3.5	− .4	− .8	−3.5	−3.5	−3.5	1.7
14	4.1	14.4	4.8	.0	4.5	1.1	−1.4	−1.5	−3.6	−3.5	−3.4	.7
15	4.2	16.4	3.8	.2	3.1	1.0	−1.8	−1.5	−3.6	−3.6	−3.4	.2
16	4.0	18.2	2.9	.7	5.7	1.0	−2.3	−2.0	−3.6	−3.5	−3.3	− .2
17	4.4	20.5	2.1	2.4	6.2	1.4	−2.5	−1.8	−3.6	−3.6	−3.3	− .6
18	4.4	21.6	1.4	2.8	4.5	1.1	−2.7	−1.9	−3.7	−3.5	−3.2	−1.1
19	4.1	22.9	1.0	3.0	7.4	.4	−2.5	−1.8	−3.7	−3.5	−3.3	−1.4
20	3.7	23.2	.8	2.7	8.6	− .2	−2.6	−1.8	−3.7	−3.6	−3.3	−1.6
21	3.1	22.5	5.6	1.9	7.5	− .7	−2.4	−2.3	−3.7	−3.6	−3.3	−1.4
22	2.5	21.1	7.2	1.1	6.8	−1.1	−1.4	−2.3	−3.2	−3.6	−3.3	5.4
23	2.1	19.4	11.0	.6	5.5	−1.6	−1.1	−1.7	− .8	−3.6	−3.3	7.4
24	1.4	17.3	16.2	.1	3.5	−1.7	−1.3	−1.4	− .9	−3.6	−3.3	7.0
25	.9	14.9	17.8	1.6	1.7	−1.9	−1.8	− .7	−1.6	−3.6	−3.3	6.8
26	.6	12.4	19.4	6.6	.6	−2.0	−1.9	− .7	−2.2	−3.6	−3.2	6.5
27	.2	9.3	21.0	7.9	− .1	−2.1	−1.7	−1.0	−2.7	−3.6	−3.2	5.6
28	.1	8.2	21.1	9.4	− .5	−2.2	−1.6	−1.5	−2.9	−3.6	−3.2	3.4
29	.4	7.4	20.0	10.1	− .8	−2.2	−1.7	−2.0	−3.0	−3.6	−2.7	1.5
30	.5	.....	18.0	9.8	− .9	−2.4	−1.8	−2.4	−3.2	−3.6	−2.6	.6
31	.5	.....	14.8	.....	.2	.....	−1.6	−2.7	.....	−3.6	.....	.3

Daily gage height, in feet, of Tombigbee River at Columbus, Miss.—Cont'd.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1909												
1	0.2	−1.1	21.9	2.8	12.9	16.3	3.1	−2.4	−3.5	−3.7	−3.7	−3.2
2	.4	−1.3	20.7	2.1	11.0	17.6	3.4	− .6	−3.5	−3.7	−3.7	−3.2
3	.4	−1.4	18.9	1.4	8.3	20 0	3.1	.0	−3.5	−3.7	−3.7	−3.2
4	.1	−1.5	16.6	1.1	7.5	20.6	2.5	− .5	−3.6	−3.7	−3.7	−3.2
5	.3	−1.6	13.9	.9	7.2	20.1	2.1	−1.1	−3.6	−3.8	−3.7	−3.2
6	1.1	−1.4	12.1	.6	6.4	18.8	1.2	−1.6	−3.6	−3.8	−3.7	−3.1
7	1.6	.6	9.8	.9	4.9	16.6	.3	−1.6	−3.6	−3.8	−3.7	−2.9
8	1.8	2.0	10.8	6.2	3.6	12.9	− .3	−1.7	−2.7	−3.8	−3.7	−2.7
9	1.4	2.5	11.1	7.6	2.2	9.0	− .3	−1.8	−2.6	−3.8	−3.7	−2.0
10	.8	10.3	11.9	8.3	1.2	8.4	4.3	−1 8	−2.9	−3.8	−3.7	−1.3
11	.1	12.0	11.5	8.4	.8	6.1	3.1	−1.9	−2.9	−3.8	−3.6	−1.0
12	− .3	12.4	13.1	6.9	.4	6.0	3.1	−2.0	−2.8	−3.9	−3.6	−1.2
13	− .5	14.0	19.1	5.5	.2	5.7	3.0	−2.1	−3.0	−3.9	−3.5	−1.4
14	− .7	15.7	20.6	8.4	− .2	6 7	1.9	−2.2	−2.9	−3.9	−3.5	−1.6
15	.5	16.4	23.5	8.9	− .5	9.6	4.1	−2 3	−2.6	−3.9	−3.5	−1.4
16	2.5	16.7	27.6	9.3	− .7	7.8	3.6	−2 2	−2.7	−3.9	−3.5	−1.0
17	3.6	17.0	26.5	10.6	−1.0	6.4	3.6	−2 4	−3.0	−3.9	−3.4	−1.2
18	4.3	19.5	24.5	10.2	− .4	6.0	3.7	−2.6	−3.3	−3.7	−3.3	−1.3
19	4.5	21.0	22.1	8.1	.2	4.5	1.9	−2.8	−3.3	−3.5	−3.3	−1.5
20	4.1	21.3	20.1	5.1	1.1	2.4	− .1	−2.9	−3.3	−3.5	−3.1	−2.1
21	3.2	20.9	20.6	3.4	1.4	2.4	− .8	−2.9	−3.3	−3.3	−2.9	−2.3
22	2.1	19.9	19.8	2.9	1.2	9.0	−1.2	−2.9	−3.4	−3.4	−2.9	−2.4
23	1.3	18.9	18.5	3.2	1.1	11.5	−1.5	−3.0	−3.5	−3.5	−2.9	−2.5
24	.8	18.6	17.7	3.4	.2	11.6	−1.7	−3.1	−3.6	−3.5	−3.0	−2.5
25	.3	19.4	16.2	3.6	1.2	9.6	−1.5	−3.2	−3.6	−3.6	−3.1	−2.5
26	.1	19.8	13.0	11.5	4.6	8.0	−1.6	−3.4	−3.6	−3.7	−3.1	−1.4
27	− .3	21.0	8.4	12.9	9.6	6.6	−1.8	−3.4	−3.7	−3.7	−2.7	− .0
28	− .5	22.2	5.5	13.2	11.1	5.1	−2.1	−3.5	−3.7	−3.7	−2.7	.9
29	− .9	.....	4.4	13.3	12.1	4.1	−2.3	−3.5	−3.7	−3.7	−2.7	.4
30	−1.0	.....	3.7	14.3	12.2	3.1	−2.5	−3.5	−3.7	−3.7	−3.0	.1
31	−1.0	.....	3.2	.....	12.8	.....	−2.6	−3.5	.....	−3.7	.....	− .5
1910												
1	−1 1	−0.6	10.8	−1.7	−2.1	−1 4	4.3	−1.1	−3.4	−3.9	−3.5	−3.0
2	−1.5	− .8	8.9	−1.8	−2.2	−1.8	6.8	−1.2	−3.4	−3.9	−3.5	−2.6
3	−1 8	−1 0	8.2	−1.8	−2.4	−2.1	7.2	−1.6	−2.8	−3.9	−3.5	−2.8
4	−1.9	−1.2	7.3	−1.8	−2.5	−2.3	7.3	−2.0	−3.1	−3.9	−3.5	−3.0
5	−2 0	−1.2	5.9	−1.8	−2.6	−2.4	7.3	−2.3	−2.2	−3.9	−3.5	−3.1
6	−1.7	−1.0	4.3	−1.6	−2.6	−2.5	7.6	− .7	−2.5	−3.9	−3.5	−2.3
7	2 7	− .7	3.0	−1.2	−2.7	−2.6	8.9	−1.3	−2.8	−3.9	−3.6	−1.3
8	4.1	− .9	2.1	−1.0	−2.8	−2.5	10.9	− .6	−2.9	−3.9	−3.6	− .5
9	4.9	−1.1	1.5	− .7	−2.9	−2.5	13.2	− .8	−3.2	−3.7	−3.6	− .2
10	5.3	−1.3	1.0	−1.0	−3.0	− .1	14.9	− .7	−3.2	−3.4	−3.5	− .9
11	5.0	−1.5	1.0	−1.3	−3.0	5.7	17.4	−1.1	−3.3	−3.3	−3.5	−1.2
12	4.1	−1.3	1.0	−1.7	−3.0	7.2	19.1	−1.5	−3.5	−3.4	−3.5	−1.9
13	3.0	−1.0	1.3	−1.9	−3.0	7.7	19.1	−1.6	−3.6	−3.5	−3.5	−2.3
14	2.1	− .7	1.2	−2.0	−3.1	8.0	17.8	−2.1	−3.6	−3.5	−3.5	−2.5
15	1.6	− .5	.5	−2.1	−3.1	7.3	15.4	−2.2	−3.7	−3.3	−3.6	−2.6
16	.9	− .4	.1	−1.9	−3.2	4.5	12.5	−2.3	−3.8	−2.6	−3.5	−2.8
17	.2	.1	− .2	− .8	−3.2	1.7	10.4	−2.5	−3 8	−1.5	−3.6	−2.9
18	− .2	8.2	−.5	1.2	−3.3	1	8.0	−2.7	−3.8	−1.8	−3.6	−3.0
19	− .4	9.3	− .7	2.1	−3.3	−1.0	5.2	−2.9	−3.9	−2.5	−3.6	−3.0
20	.0	9.9	− .8	2.1	−3.0	−1.5	3.0	−3.0	−3.9	−2.9	−3.6	−3.0
21	4.8	11.4	− .9	1.4	−2.4	−1.6	2.6	−3.1	−3.9	−3.2	−3.6	−3.0
22	5.8	13.3	−1.0	.7	− .4	−1.3	2.6	−2.9	−3.9	−3.4	−3.6	−3.0
23	6.3	13.7	−1.0	.1	2.8	2.3	1.3	−2.4	−3.9	−3.5	−3.6	−2.9
24	6.7	13 2	−1.1	− .7	4.2	2.1	.6	−1 0	−3.8	−3.5	−3.6	−1.6
25	6.6	12.7	−1.2	−1.3	4.9	1.3	.1	−2.2	−3.9	−3.0	−3.6	− .6
26	5.7	12.3	−1.2	−1.5	5.4	2	1.2	−2.6	−3.9	−3.6	−3.6	− .1
27	3.8	11:8	−1.3	−1.7	4.9	.1	3	−2.7	−3.9	−3.7	−3.4	.0
28	2 1	11.6	−1.4	−1.9	3.2	− .3	− .1	−2.8	−4.0	−3.7	−3.2	− .6
29	1.0	.....	−1.5	−1.9	1.4	− .2	− .6	−3.0	−4.0	−3.7	−3.3	−1.2
30	.2	.....	−1.6	−2.1	.2	3.9	−1.4	−3.1	−4.0	−3.7	−3.2	−1.6
31	− .3	.....	−1.7	.....	− .8	.....	−1.7	−3.2	.....	−3.5	.....	−1.6

Daily gage height, in feet, of Tombigbee River at Columbus, Miss.—Cont'd.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1911												
1	0.45	−0.05	8.2	2.05	10.3	−2.25	−0.8	−2.0	−1.5	−3.9	−3.6	−1.4
2	9.8	− .05	9.6	1.15	10.2	−2.45	−1.0	.2	−2.0	−3.0	−3.7	−1.4
3	13.1	− .45	10.8	.35	8.4	−2.55	−1.7	.1	−2.4	−3.9	−3.7	−1.7
4	13.8	− .65	11.2	− .25	6.7	−2.65	−2.4	.1	−2.7	−4.0	−3.7	−2.0
5	15.6	− .75	9.9	11.5	4.5	−2.75	−2.8	.3	−2.9	−4.0	−3.7	−2.2
6	17.8	− .65	6.9	14.6	2.85	−2.75	−2.9	.0	−3.0	−4.0	−3.7	−2.4
7	17.6	− .25	3.75	16.4	1.95	−2.75	−2.5	− .1	−3.0	−4.0	−3.7	−2.5
8	16.1	.35	2.45	19.5	1.25	−2.85	−2.5	− .3	−3.0	−4.0	−3.7	−2.6
9	12.0	2.55	1.75	21.2	.75	−2.85	−2.8	− .6	−3.1	−4.1	−3.3	−2.7
10	6.6	6.6	1.25	21.7	.35	−2.85	−2.8	.1	−2.7	−4.1	−2.9	−2.8
11	3.65	7.6	.75	21.1	− .15	−2.95	−3.0	− .1	−2.5	−4.1	−2.5	−2.5
12	2.05	9.6	.25	21.1	− .45	−3.15	−3.0	− .9	−2.4	−4.1	−2.3	− .9
12	1.15	10.7	.05	21.4	− .65	−3.25	− .8	−1.7	−2.4	−4.0	−2.4	4.6
14	.55	11.0	− .15	21.0	− .85	−3.25	.6	−2.2	−2.3	−3.5	−2.5	8.6
15	.15	10.5	− .25	19.5	−1.05	−3.35	2.5	−2.5	−2.4	−3.1	−2.4	12.8
16	− .15	9.6	− .25	17.4	−1.25	−3.35	1.4	.8	−2.5	−3.2	−2.2	13.8
17	− .45	8.2	− .45	14.8	−1.65	−3.45	.0	.3	−2.8	−3.4	−2.2	14.4
18	− .55	6.9	− .65	13.2	−1.65	−3.55	.2	− .5	−3.0	−3.5	−2.3	15.4
19	− .65	5.3	− .85	13.7	−1.75	−3.55	− .6	.2	−3.3	−3.1	−2.4	16.0
20	− .85	4.3	− .95	16.3	−1.85	−3.25	− .9	1.4	−3.4	−2.1	−2.3	16.0
21	−1.05	4.2	− .45	18.1	−1.75	−3.35	−1.2	2.0	−3.5	−2.4	−2.1	15.2
22	−1.25	4.1	.25	22.5	− .95	−3.35	−2.0	1.8	−3.6	−2.8	−2.0	14.1
23	−1.25	3.45	.25	26.0	.65	−2.85	2.6	1.8	−3.7	−3.0	−2.3	14.4
24	−1.25	2.25	− .15	26.2	.65	−2.05	5.0	1.7	−3.7	−3.8	−2.6	14.1
25	−1.35	1.45	− .55	24.7	.75	−1.55	5.0	1.3	−3.7	−3.4	−2.7	13.5
26	−1.45	.95	− .65	22.2	.75	− .95	4.2	.5	−3.8	−3.5	−2.6	14.3
27	−1.45	.95	.05	18.9	− .35	− .25	3.6	− .5	−3.8	−3.6	−2.4	17.0
28	− .75	7.0	3.15	16.1	− .95	− .55	2.3	− .6	−3.8	−3.6	−2.2	18.1
29	35	.....	4.6	13.6	−1.45	.35	.6	− .3	−3.8	−3.6	−2.0	17.9
30	.25	.....	4.5	11.2	−1.75	− .15	− .6	− .3	−3.9	−3.6	−1.6	17.6
31	.05	.....	3.3	.....	−2.05	.....	−1.6	− .9	.....	−3.6	.....	18.4
1912												
1	19.0	13.8	15.8	22.8	18.1	−0.8	5.1	−2.0	−2.1	−0.5	−2.4	−2.5
2	19.1	14.9	14.6	25.4	19.9	− .9	8.3	−2.1	−2.4	−1.0	−2.5	−2.4
3	19.4	14.8	11.4	26.5	21.5	− .8	8.9	−2.2	−2.5	−1.4	−2.5	− .2
4	20.4	12.0	9.3	27.0	21.3	− .5	8.2	−2.2	−2.6	−1.8	−2.5	2.2
5	20.9	8.5	8.5	26.2	19.4	− .2	7.1	−1.7	−2.7	−2.2	−2.0	6.5
6	20.5	6.0	11.1	24.2	16.2	.1	5.4	−1.7	−2.8	−2.3	−2.0	11.4
7	18.9	4.3	11.2	21.6	14.3	.0	4.7	−2.2	−2.9	−2.4	−2.1	12.2
8	16.1	3.9	11.6	18.9	14.4	− .5	3.4	−1.8	−3.0	−2.7	−2.1	12.7
9	14.9	2.2	12.7	16.3	13.9	− .8	2.3	−1.8	−3.0	−2.8	−2.0	14.8
10	13.6	2.1	14.0	14.4	13.8	−1.1	4.5	.9	−3.0	−2.9	−1.9	15.5
11	12.3	2.1	14.1	12.9	13.4	−1.4	4.5	2.0	−3.1	−2.9	−1.9	14.7
12	11.8	2.2	15.7	11.4	12.3	−1.7	3.7	1.8	−3.1	−2.9	−2.1	13.0
13	11.0	2.2	17.4	10.3	10.1	−1.9	3.7	1.3	−3.1	−3.0	−2.3	11.0
14	9.5	2.3	17.2	11.4	8.3	−2.0	3.1	1.8	−3.2	−3.1	−2.4	9.3
15	7.7	2.4	18.5	11.1	7.1	−2.0	1.8	1.8	−3.0	−3.1	−2.3	7.8
16	5.8	2.4	19.7	14.8	6.0	−2.0	1.0	1.3	−1.0	−3.2	−2.3	5.4
17	4.5	2.2	19.5	20.7	4.8	−1.6	.4	.4	.1	−3.2	−2.1	3.0
18	3.4	2.0	19.3	23.8	4.0	−1.0	1.8	.9	1.3	−3.0	−2.3	2.2
19	7.2	1.7	19.0	26.1	2.8	−1.5	4.4	.0	.9	−2.7	−2.4	2.6
20	10.1	1.3	17.9	26.7	1.8	−1.9	5.0	− .7	.6	3.2	−2.5	2.7
21	10.7	4.7	15.5	26.2	1.2	−2.0	5.0	− .8	.5	3.4	−2.5	2.4
22	11.1	7.8	12.6	25.1	.8	−2.0	4.1	−1.3	.7	2.7	−2.5	1.5
23	11.2	8.4	10.4	25.1	.4	−2.2	2.8	−1.3	1.0	1.8	−2.6	2.2
24	9.4	9.2	11.2	24.3	.1	−2.1	1.2	1.2	1.2	1.7	−2.6	6.9
25	6.5	11.0	12.5	22.4	− .1	−2.0	.0	1.7	.5	1.0	−2.6	8.8
26	4.5	13.0	13.3	20.2	− .4	− .8	− .6	1.3	− .4	.2	− 2.6	9.3
27	3.5	13.8	14.8	18.8	− .4	.8	− .9	.0	−1.3	− .6	−2.5	10.0
28	2.9	14.6	16.8	16.0	.0	2.7	−1.4	− .5	−1.8	−1.3	−2.6	9.9
29	8.5	15.5	19.4	16.0	.3	2.9	−1.6	−1.0	− .3	−1.7	−2.6	8.4
30	12.4	.....	20.8	16.6	− .4	2.8	−1.7	−1.5	− .2	−2.0	−2.5	7.7
31	12.8	.....	21.1	.....	− .7	.....	−1.8	−1.8	.....	−2.2	.....	8.3

Station-rating table for Tombigbee River at Columbus, Miss., from July 13 to December 31, 1905.

Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.
Feet.	*Second-feet.*	*Feet*	*Second-feet.*	*Feet.*	*Second-feet.*	*Feet.*	*Second-feet.*
−3.20	360	−1.40	1,375	0.40	2,800	3.40	5,830
−3.10	405	−1.30	1,440	.50	2,890	3.60	6,060
−3.00	450	−1.20	1,510	.60	2,980	3.80	6,300
−2.90	500	−1.10	1,580	.70	3,070	4.00	6,540
−2.80	550	−1.00	1,650	.80	3,160	4.20	6,780
−2.70	605	− .90	1,725	.90	3,250	4.40	7,020
−2.60	660	− .80	1,800	1.00	3,340	4.60	7,270
−2.50	715	− .70	1,880	1.20	3,540	4.80	7,530
−2.40	770	− .60	1,960	1.40	3,740	5.00	7,790
−2.30	825	− .50	2,040	1.60	3,940	5.20	8,050
−2.20	880	− .40	2,120	1.80	4,140	5.40	8,310
−2.10	940	− .30	2,200	2.00	4,340	5.60	8,570
−2.00	1,000	− .20	2,280	2.20	4,540	5.80	8,830
−1.90	1,060	− .10	2,360	2.40	4,740	6.00	9,090
−1.80	1,120	.00	2,440	2.60	4,950		
−1.70	1,180	.10	2,530	2.80	5,170	7.00	10,440
−1.60	1,245	.20	2,620	3.00	5,390		
−1.50	1,310	.30	2,710	3.20	5,610		

The above table is based on discharge measurements made during 1904-5. It is well defined between gage heights—2 feet and +2 feet. The table has been extended above 2 feet.

Rating table for Tombigbee River at Columbus, Miss., for 1906.

Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.
Feet	*Sec.-ft.*	*Feet.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Feet.*	*Sec.-ft.*
−3.50	340	−1.80	1,260	.10	2,495	4.00	6,920
−3.40	380	−1.70	1,325	.00	2,580	5.00	8,240
−3.30	425	−1.60	1,390	.20	2,755	6.00	9,620
−3.20	470	−1.50	1,455	.40	2,935	7.00	11,060
−3.10	520	−1.40	1,520	.60	3,115	8.00	12,540
−3.00	570	−1.30	1,590	.80	3,305	9.00	14,040
−2.90	620	−1.20	1,660	1.00	3,500	10.00	15,590
−2.80	675	−1.10	1,730	1.20	3,700	11.00	17,170
−2.70	730	−1.00	1,800	1.40	3,900	12.00	18,800
−2.60	785	− .90	1,870	1.60	4,110	13.00	20,500
−2.50	840	− .80	1,940	1.80	4,320	14.00	22,300
−2.40	895	− .70	2,015	2.00	4,540	15.00	23,900
−2.30	950	− .60	2,090	2.20	4,760	16.00	25,600
−2.20	1,010	− .50	2,170	2.40	4,990	17.00	27,300
−2.10	1,070	− .40	2,250	2.60	5,220	18.00	29,000
−2.00	1,130	− .30	2,330	2.80	5,450		
−1.90	1,195	− .20	2,410	3.00	5,680		

Note.—The above table is based on five discharge measurements made during 1906, and on ten high-water measurements made before 1906. It is well defined below gage height 0.0 feet. Above gage height, 12 feet the rating curve is a tangent, the difference being 170 per tenth.

Rating table for Tombigbee River at Columbus, Miss., for 1907 and 1908.

Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.
Feet.	*Sec.-ft.*	*Feet.*	*Sec.-ft.*	*Feet.*	*Sec.-ft.*	*Feet.*	*Sec.-ft.*
−3.70	310	−1.80	1,260	20	2,755	8.00	12,540
−3.60	345	−1.70	1,325	40	2,935	9.00	14,040
−3.50	380	−1.60	1,390	60	3,115	10.00	15,590
−3.40	420	−1.50	1,455	80	3,305	11.00	17,170
−3.30	460	−1.40	1,520	1.00	3,500	12.00	18,800
−3.20	500	−1.30	1,590	1.20	3,700	13.00	20,500
−3.10	545	−1.20	1,660	1.40	3,900	14.00	22,200
−3.00	590	−1.10	1,730	1.60	4,110	15.00	23,900
−2.90	635	−1.00	1,800	1.80	4,320	16.00	25,600
−2.80	685	− .90	1,870	2.00	4,540	17.00	27,300
−2.70	735	− .80	1,940	2.20	4,760	18.00	29,000
−2.60	785	− .70	2,015	2.40	4,990	19.00	30,700
−2.50	840	− .60	2,090	2.60	5,220	20.00	32,400
−2.40	895	− .50	2,170	2.80	5,450	21.00	34,100
−2.30	950	− .40	2,250	3.00	5,680	22.00	35,800
−2.20	1,010	− .30	2,330	4.00	6,920	23.00	37,500
−2.10	1,070	− .20	2,410	5.00	8,240	24.00	39,200
−2.00	1,130	− .10	2,495	6.00	9,620		
−1.90	1,195	.00	2,580	7.00	11,060		

Note.—The above table is not applicable for obstructed-channel conditions. It is well defined. Above gage height 12 feet the rating curve is a tangent, the difference being 170 per tenth.

Daily discharge, in second-feet, of Tombigbee River at Columbus, Miss.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1909												
1	2,760	1,780	35,600	5,450	20,300	26,100	5,800	895	380	310	310	500
2	2,940	1,590	33,600	4,650	17,200	28,300	6,160	2,090	380	310	310	500
3	2,940	1,520	30,500	3,900	13,000	32,400	5,800	2,580	380	310	310	500
4	2,660	1,460	26,600	3,600	11,800	33,400	5,100	2,170	345	310	310	500
5	2,840	1,390	22,000	3,400	11,400	32,600	4,650	1,730	345	280	310	500
6	3,600	1,520	19,000	3,120	10,200	30,400	3,700	1,390	345	280	310	545
7	4,110	3,120	15,300	3,400	8,100	26,600	2,840	1,390	345	280	310	635
8	4,320	4,540	16,800	9,900	6,410	20,300	2,330	1,320	735	280	310	735
9	3,900	5,100	17,300	11,900	4,760	14,000	2,330	1,260	785	280	310	1,130
10	3,300	16,100	18,600	13,000	3,700	13,100	7,310	1,260	635	280	310	1,590
11	2,660	18,800	18,000	13,100	3,300	9,760	5,800	1,200	635	280	345	1,800
12	2,330	19,500	20,700	10,900	2,940	9,620	5,800	1,130	685	250	345	1,660
13	2,170	22,200	30,900	8,920	2,760	9,200	5,680	1,070	590	250	380	1,520
14	2,020	25,100	43,600	13,100	2,410	10,600	4,430	1,010	635	250	380	1,390
15	3,020	26,300	46,800	13,900	2,170	15,000	7,050	950	785	250	380	1,520
16	5,100	26,800	45,300	14,500	2,020	12,200	6,410	1,010	735	250	380	1,800
17	6,410	27,300	43,400	16,500	1,800	10,200	6,410	895	590	250	420	1,660
18	7,310	31,600	40,000	15,900	2,250	9,620	6,540	785	460	310	460	1,590
19	7,570	34,100	36,000	12,700	2,760	7,570	4,430	685	460	380	460	1,460
20	7,050	34,600	32,600	8,380	3,600	4,990	2,500	635	460	380	545	1,070
21	5,920	33,900	33,400	6,160	3,900	4,990	1,940	635	460	460	635	950
22	4,650	32,200	32,100	5,560	3,700	14,000	1,660	635	420	420	635	895
23	3,800	30,500	29,800	5,920	3,600	18,000	1,460	590	380	380	635	840
24	3,300	30,000	28,500	13,100	2,760	18,100	1,320	545	345	380	590	840
25	2,840	31,400	25,900	13,400	3,700	15,000	1,460	500	345	345	545	840
26	2,660	32,100	20,500	18,000	7,700	12,500	1,390	420	345	310	545	1,520
27	2,330	34,100	18,100	20,300	15,000	10,500	1,260	420	310	310	735	2,580
28	2,170	36,100	8,920	24,200	17,300	8,380	1,070	380	310	310	735	3,400
29	1,870	.....	7,440	24,400	19,000	7,050	950	380	310	310	735	2,940
30	1,800	.....	6,540	22,700	19,100	5,800	840	380	310	310	590	2,660
31	1,800	.....	5,920	.....	20,200	.....	785	380	.....	310	.....	2,170
1910												
1	1,730	2,090	16,800	1,320	1,070	1,520	7,310	1,730	420	250	380	580
2	1,460	1,940	13,900	1,260	1,010	1,260	10,800	1,660	420	250	380	785
3	1,260	1,800	12,800	1,260	895	1,070	11,400	1,390	685	250	340	685
4	1,200	1,660	11,500	1,200	840	950	11,500	1,130	545	250	380	590
5	1,130	1,660	9,480	1,260	785	895	11,500	950	1,010	250	380	545
6	1,320	1,800	7,310	1,390	785	840	11,900	2,020	840	250	380	950
7	5,340	2,020	5,680	1,660	735	785	13,900	1,590	685	250	345	1,590
8	7,050	1,870	4,650	1,800	685	840	17,000	2,090	635	250	345	2,170
9	8,100	1,730	4,000	2,020	635	840	20,800	1,940	500	310	345	2,410
10	8,640	1,590	3,500	1,800	590	2,500	23,700	2,020	500	420	380	1,870
11	8,240	1,460	3,500	1,590	590	9,200	28,000	1,730	460	460	380	1,660
12	7,050	1,590	3,500	1,320	590	11,400	30,900	1,460	380	420	380	1,200
13	5,680	1,800	3,800	1,200	590	12,100	30,900	1,390	345	380	380	950
14	4,650	2,020	3,700	1,130	545	12,500	28,700	1,070	345	380	380	840
15	4,110	2,170	3,020	1,070	545	11,500	24,000	1,010	310	460	345	785
16	3,400	2,250	2,660	1,200	500	7,570	19,600	950	280	785	380	685
17	2,760	2,660	2,410	1,940	500	4,220	16,200	840	280	1,460	345	635
18	2,410	12,800	2,170	3,700	460	2,660	12,500	735	280	1,260	345	580
19	2,250	14,500	2,020	4,650	460	1,800	8,510	635	250	840	345	580
20	2,580	15,400	1,940	4,650	580	1,460	5,680	590	250	635	345	590
21	7,970	17,800	1,870	3,900	895	1,390	5,220	545	250	500	345	580
22	9,340	21,000	1,800	3,210	2,250	1,500	5,220	635	250	420	345	580
23	10,000	21,700	1,800	2,660	5,450	4,880	3,800	895	250	380	345	635
24	10,600	20,800	1,730	2,020	7,180	4,650	3,120	1,800	280	380	345	1,380
25	10,500	20,000	1,660	1,590	8,100	3,800	2,660	1,010	250	345	345	2,080
26	9,200	19,300	1,660	1,460	8,780	2,700	3,700	785	250	345	345	2,500
27	6,660	18,500	1,590	1,320	8,100	2,660	2,840	735	250	310	420	2,580
28	4,650	18,100	1,520	1,200	5,920	2,330	2,500	685	220	310	500	2,080
29	3,500	.....	1,460	1,200	3,900	2,410	2,080	590	220	310	460	1,660
30	2,760	.....	1,390	1,070	2,760	6,790	1,520	545	220	310	500	1,380
31	2,330	.....	1,320	.....	1,940	.....	1,320	500	.....	380	.....	1,380

NOTE.—These discharges were obtained from a well-defined rating curve.

Daily gage height, in feet, of Tombigbee River at Columbus, Miss.—Cont'd.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1911												
1	2,980	2,540	11,600	4,470	14,400	980	1,940	1,130	1,460	250	345	1,520
2	13,700	2,540	13,400	3,620	14,300	868	1,800	2,760	1,130	250	310	1,520
3	18,600	2,210	15,100	2,900	11,800	812	1,320	2,670	895	250	310	1,320
4	19,700	2,050	15,700	2,370	9,640	760	895	2,670	735	220	310	1,130
5	22,700	1,980	13,900	16,600	7,030	710	685	2,850	635	220	310	1,010
6	26,500	2,050	9,880	21,000	5,270	710	635	2,580	590	220	310	895
7	28,200	2,290	6,200	24,000	4,370	710	840	2,500	590	220	310	840
8	23,500	3,340	4,870	30,000	3,710	680	840	1,940	590	220	310	785
9	16,900	4,970	4,180	34,000	3,260	680	685	2,090	545	195	460	735
10	9,520	9,520	3,710	35,200	2,900	680	685	2,670	735	195	635	685
11	6,100	10,800	3,260	33,800	2,450	612	590	2,500	840	195	840	840
12	4,470	13,400	2,800	33,800	2,210	522	590	1,870	895	195	950	1,870
13	3,620	15,000	2,620	34,500	2,050	480	1,940	1,320	895	220	895	7,140
14	3,080	15,400	2,450	33,500	1,900	480	3,120	1,010	950	380	840	12,100
15	2,720	15,100	2,370	30,000	1,760	440	4,920	840	895	545	895	18,100
16	2,450	13,400	2,370	25,800	1,620	440	3,850	3,300	840	500	1,010	19,700
17	2,210	11,600	2,210	21,300	1,300	400	2,580	2,850	685	420	1,010	20,700
18	2,130	9,880	2,050	18,800	1,380	382	2,760	2,170	590	380	950	22,300
19	2,050	7,980	1,900	19,800	1,200	382	2,090	2,760	460	545	895	23,400
20	1,900	6,810	1,840	23,900	1,130	480	1,870	3,850	420	1,070	950	23,400
21	1,760	6,700	2,210	27,100	1,260	440	1,660	4,420	380	895	1,070	22,000
22	1,620	6,590	2,800	37,200	1,840	440	1,130	4,230	345	685	1,130	20,200
23	1,620	5,880	2,800	46,000	3,160	660	5,020	4,230	310	590	950	20,700
24	1,620	4,670	2,450	46,500	3,160	1,100	7,600	4,140	310	460	785	20,200
25	1,580	3,900	2,130	42,800	3,260	1,420	7,600	3,760	310	420	735	19,300
26	1,490	3,440	2,050	36,500	3,260	1,840	6,700	3,600	280	380	785	20,500
27	1,490	3,440	2,620	28,700	2,200	2,370	6,040	2,170	280	345	895	25,100
28	1,980	10,000	5,570	23,500	1,840	2,130	4,720	2,090	280	345	1,010	27,100
29	2,900	.....	7,140	19,400	1,490	2,900	3,120	2,330	280	345	1,130	26,700
30	2,800	.....	7,090	15,700	1,200	2,450	2,090	2,330	260	345	1,390	26,200
31	2,620	.....	5,720	.....	1,100	.....	1,300	1,870	.....	345	.....	27,700
1912												
1	28,900	19,700	23,000	38,000	27,100	1,940	7,720	1,130	1,070	2,170	895	840
2	29,100	21,500	21,000	44,500	30,900	1,870	11,700	1,070	895	1,800	840	895
3	29,700	21,300	16,000	47,200	34,800	1,940	12,500	1,010	840	1,520	840	2,410
4	32,100	16,900	13,000	48,500	34,200	2,170	11,600	1,010	785	1,260	840	5,620
5	33,300	12,000	12,000	46,500	29,700	2,410	10,100	1,320	735	1,010	1,130	9,400
6	32,300	8,800	15,600	41,500	23,700	2,670	8,080	1,320	685	950	1,130	16,000
7	28,700	6,810	15,700	35,000	20,500	2,580	7,260	1,010	635	895	1,070	18,800
8	23,500	5,420	16,300	28,700	20,700	2,170	5,820	1,260	590	735	1,070	19,600
9	21,500	4,620	19,600	23,900	19,900	1,940	5,720	1,260	590	685	1,130	21,300
10	19,400	4,520	20,100	20,700	19,700	1,730	7,080	3,300	590	635	1,200	22,500
11	17,400	4,520	20,200	18,300	19,100	1,520	7,080	4,420	545	635	1,200	21,200
12	16,600	4,640	22,800	16,000	17,400	1,320	6,150	4,230	545	635	1,070	18,500
13	15,400	4,620	25,800	14,400	14,100	1,200	6,150	3,760	545	590	950	15,400
14	13,300	4,720	25,500	16,000	11,700	1,180	5,520	4,230	500	545	895	13,000
15	10,900	4,820	27,900	15,600	10,100	1,130	4,230	4,230	590	545	950	11,000
16	8,560	4,820	30,400	21,300	8,800	1,130	3,480	3,760	1,800	500	950	8,080
17	7,080	4,620	30,000	32,800	7,360	1,320	2,940	2,940	2,670	500	1,070	5,420
18	5,820	4,420	29,500	40,500	6,480	1,800	4,230	3,300	3,760	590	950	4,620
19	10,300	4,148	28,900	46,200	5,220	1,460	6,920	2,580	3,300	735	895	6,020
20	14,100	3,760	26,700	47,800	4,230	1,200	7,600	2,020	3,120	5,020	840	5,120
21	15,000	7,260	22,500	46,500	3,660	1,130	7,600	1,940	3,030	5,820	840	4,820
22	15,600	11,000	17,800	43,800	3,300	1,130	6,590	1,590	3,210	6,120	840	3,940
23	15,700	11,800	14,600	43,800	2,940	1,010	5,230	1,590	3,480	3,760	785	4,620
24	13,200	12,900	15,700	41,800	2,670	1,070	3,660	3,660	3,660	4,140	785	9,880
25	9,400	15,400	17,700	37,000	2,500	1,130	2,580	4,140	3,030	3,480	785	12,300
26	7,080	18,500	18,900	31,600	2,260	1,940	2,090	3,760	2,260	2,760	785	13,000
27	5,920	19,700	21,300	24,700	2,260	3,300	1,870	2,580	1,590	2,090	785	14,000
28	5,320	21,000	24,700	22,400	2,580	5,120	1,520	2,170	1,260	1,590	785	13,900
29	12,000	22,500	26,700	23,400	2,850	5,320	1,390	1,800	2,330	1,320	785	11,800
30	17,500	.....	33,000	24,400	2,260	5,220	1,320	1,460	2,410	1,130	840	10,900
31	18,100	.....	33,800	.....	2,020	.....	1,260	1,260	.....	1,010	.....	11,700

NOTE.—Daily discharge computed from a rating curve well defined below 4,000 second-feet and fairly well defined below 32,000 second-feet.

Estimated monthly discharge of Tombigbee River at Columbus, Miss.

[Drainage area, 4,440 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-feet per square mile.	Depth in inches.
1905					
July 13-31	3,440	450	1,142	0.257	0.182
August	8,700	770	3,576	.805	.928
September	1,725	360	868	.195	.218
October	4,240	500	1,578	.355	.409
November	3,250	715	1,369	.308	.344
December	10,580	880	5,738	1.29	1.49
1906					
January	17,200	4,220	9,090	2.05	2.36
February	6,660	1,590	2,630	.592	.62
March	28,500	2,500	12,900	2.91	3.36
April	29,300	1,520	7,480	1.68	1.87
May	15,000	950	4,220	.950	1.10
June	2,090	425	909	.205	.23
July	6,540	340	1,580	.356	.41
August	1,460	470	790	.178	.21
September	13,300	340	1,630	.367	.41
October	19,300	950	6,800	1.53	1.76
November	11,200	780	3,520	.793	.88
December	9,620	1,590	4,520	1.02	1.18
The year	29,300	340	4,670	1.05	14.39
1907					
January	8,640	2,020	4,550	1.02	1.18
February	25,100	2,020	9,740	2.19	2.28
March	26,300	2,090	11,800	2.66	3.07
April	6,160	1,520	3,290	.741	.83
May	25,100	4,880	18,600	4.19	4.83
June	16,800	1,390	6,490	1.46	1.63
July	2,170	685	1,210	.273	.31
August	1,010	380	527	.119	.14
September	1,130	310	449	.101	.11
October	895	345	445	.100	.12
November	2,170	380	957	.216	.24
December	4,000	785	1,680	.378	.44
The year	26,300	310	4,980	1.12	15.18
1908					
January	10,600	2,660	6,370	1.43	1.65
February	37,800	6,040	19,800	4.46	4.81
March	34,300	3,300	14,000	3.15	3.63
April	17,800	2,580	6,640	1.50	1.67
May	27,500	1,870	11,100	2.50	2.88
June	16,500	895	5,290	1.19	1.33
July	3,120	785	1,410	.318	.37
August	4,650	785	2,040	.459	.53
September	1,940	310	590	.133	.15
October	460	345	364	.082	.09
November	785	345	443	.100	.11
December	11,600	685	4,730	1.07	1.23
The year	37,800	310	6,060	1.37	18.45

Monthly discharge of Tombigbee River at Columbus, Miss.—Continued.

[Drainage area, 4,440 square miles.]

Month.	Discharge in second-feet.				Run-off (depth in inches on drainage area).
	Maximum.	Minimum.	Mean.	Per square mile.	
1909					
January	7,570	1,800	3,620	0.815	0.94
February	36,100	1,390	20,200	4.55	4.74
March	46,800	5,920	26,000	5.86	6.76
April	24,400	5,120	11,500	2.59	2.89
May	20,300	1,800	8,030	1.81	2.09
June	33,400	4,990	15,700	3.54	3.95
July	7,310	785	3,720	.838	.97
August	2,589	380	991	.223	.26
September	785	310	475	.107	.12
October	460	250	310	.070	.08
November	735	310	452	.102	.11
December	3,400	500	1,360	.306	.35
The year	46,800	250	7,700	1.73	23.26
1910					
January	10,600	1,130	5,080	1.15	1.33
February	21,700	1,460	8,290	1.87	1.95
March	16,800	1,320	4,390	.989	1.14
April	4,650	1,070	1,900	.428	.48
May	8,780	460	2,220	.500	.58
June	12,500	785	3,970	.894	1.00
July	30,900	1,320	12,200	2.75	3.17
August	2,090	500	1,150	.259	.30
September	1,010	220	395	.089	.10
October	1,460	250	445	.100	.12
November	500	345	376	.085	.09
December	2,580	545	1,210	273	.31
The year	30,900	220	3,450	777	10.57
1911					
January	26,500	1,490	7,500	1.69	1.95
February	15,400	1,980	7,050	1.59	1.66
March	15,700	1,840	5,320	1.20	1.38
April	46,500	2,370	25,800	5.81	6.48
May	14,400	1,100	3,800	.856	.99
June	2,900	362	920	.209	.23
July	7,600	580	2,640	.595	.69
August	4,420	340	2,610	.588	.68
September	1,460	250	613	.138	.15
October	1,070	195	382	.086	.10
November	1,390	310	758	.171	.19
December	27,700	685	13,400	3.02	3.48
The year	46,500	195	5,880	1.32	17.98
1912					
January	33,300	5,320	17,200	3.87	4.46
February	22,500	3,760	10,600	2.39	2.58
March	33,800	12,000	25,500	5.74	6.62
April	48,500	14,400	32,800	7.39	8.24
May	34,800	2,020	12,700	2.86	3.30
June	5,320	1,010	2,040	.459	.51
July	12,500	1,260	5,710	1.29	1.49
August	4,420	1,010	2,430	.547	.63
September	3,760	500	1,700	.383	.43
October	5,820	500	1,770	.399	.46
November	1,200	785	931	.210	.23
December	22,500	840	10,800	2.43	2.80
The year	48,500	500	10,400	2.34	31.75

TOMBIGBEE RIVER AT EPES, ALA.

Location.—At the Alabama Great Southern Railroad bridge just below the mouth of Jones Creek, about half a mile from Epes, Ala.

Records available.—1900 and 1901, and from January 1, 1905, to December 31, 1913.

Drainage area.—8,830 square miles.

Gage.—Standard chain gage attached to the railroad bridge, established November 29, 1904, datum unchanged.

Channel.—At flood stages—gage heights of 38 feet and over—the left bank overflows for about seven-eights of a mile under the trestle approach of the bridge. Some changes in section have probably occurred since the station was established.

Discharge measurements.—Made from the downstream side of the railroad bridge.

Accuracy.—Good results have been obtained at this station in the years when sufficient discharge measurements were made to fix the rating curve. The gage heights for 1900 and 1901 are approximate reading from a gage painted on the bridge pier, graduated to half feet only. These gage heights were furnished by the Alabama Great Southern Railroad.

Discharge measurements of Tombigbee River at Epes, Ala.

Date.	Gage height. Feet.	Discharge. Sec.-feet.	Date.	Gage height. Feet.	Discharge. Sec.-feet.
1901			1906		
January 31	12.70	18,738	September 24	1.39	1,290
March 14	21.10	23,824	October 27	4.08	3,190
June 28	1.00	1,496	1907		
November 13	0.70	1,290	October 25	0.54	664
1904			1908		
November 29	0.95	969	March 25	32.55	35,100
1905			1909		
February 22	43.0	44,630	August 20	2.22	1,440
February 23	42.3	40,960	September 17	1.75	1,290
February 28	42.4	42,580	1911		
May 19	6.43	5,149	August 17	3.40	2,860
June 26	5.69	4,976	August 17	3.98	3,310
December 22	15.57	15,070			

Daily gage height, in feet, of Tombigbee River near Epes, Ala

Day	Jan.	Feb.	Mar.	Apr.	May.	June.	July	Aug	Sept.	Oct.	Nov.	Dec.
1900.												
1	8.5	3.0	18.0	24.5	43.0	6.0	44.5	14.5	2.0	0.5	7.0	8.0
2	7.5	3.0	19.0	19.5	41.0	8.0	44.5	12.0	2.5	.5	8.0	7.5
3	6.5	3.0	18.0	16.0	39.0	15.0	44.5	10.5	2.0	.5	9.0	7.0
4	6.0	3.0	17.0	12.0	33.5	21.0	44.0	8.0	2.0	.5	8.5	6.0
5	5.5	5.0	15.0	10.0	28.0	24.5	42.5	6.0	2.0	.5	8.5	5.0
6	5.0	6.0	14.0	8.0	20.5	27.0	42.0	5.0	2.0	.5	7.5	4.5
7	4.5	7.0	13.0	7.5	16.0	29.5	41.0	5.0	2.0	.5	7.0	4.0
8	4.0	7.5	18.0	7.5	10.0	32.0	40.0	4.0	2.0	.5	5.5	4.0
9	3.5	11.5	21.0	7.0	7.0	34.5	39.0	3.0	2.0	.5	4.5	4.0
10	3.5	13.5	23.0	6.5	7.0	37.0	38.0	2.0	2.0	2.0	4.0	3.5
11	13.0	15.0	24.0	20.5	7.0	38.5	34.0	2.0	1.5	4.0	4.0	3.0
12	20.0	20.5	24.0	26.0	8.0	39.5	26.0	2.0	1.5	6.0	3.0	3.0
13	23.0	26.0	23.0	29.0	8.0	40.5	23.0	2.0	1.5	7.5	3.0	3.5
14	23.5	28.0	20.0	30.0	7.0	41.0	15.5	2.0	2.0	8.5	2.5	3.6
15	22.0	28.0	17.5	31.0	6.0	41.5	13.0	2.0	1.5	10.0	2.0	3.5
16	21.0	26.0	17.0	38.0	6.0	42.0	8.0	1.5	1.0	10.5	2.0	3.0
17	18.5	24.0	18.0	46.0	5.0	42.0	7.0	1.5	1.0	10.0	2.0	3.0
18	15.0	22.0	18.0	48.5	4.0	42.0	6.0	1.5	1.0	7.5	2.0	3.0
19	11.5	18.5	18.5	51.0	3.5	41.5	5.0	1.5	1.0	5.0	2.5	3.0
20	10.0	16.0	26.0	51.5	3.5	41.5	6.5	1.5	.5	4.0	2.5	6.0
21	8.5	14.0	30.0	52.0	3.5	41.5	7.0	1.0	.5	3.5	3.0	5.0
22	8.0	15.0	32.0	52.0	3.5	41.0	8.0	1.0	.5	3.0	3.5	5.0
23	8.0	17.5	34.0	51.5	3.5	41.0	9.0	2.0	.5	2.0	3.5	8.5
24	7.0	18.0	35.5	51.0	4.0	42.5	8.0	1.5	.5	2.0	3.5	10.0
25	6.5	17.5	37.5	49.5	4.5	42.5	6.0	1.5	.5	3.0	6.5	11.5
26	6.0	17.0	38.0	47.5	5.0	43.5	5.5	1.5	.5	4.0	8.5	11.5
27	5.0	16.0	39.0	47.0	6.0	43.5	5.0	5.0	.5	4.5	7.5	12.5
28	3.0	17.0	38.5	46.5	7.0	43.5	5.5	4.5	.5	7.5	7.5	12.0
29	3.0	.....	35.0	46.0	7.0	44.0	14.0	4.0	.5	9.0	8.0	10.0
30	3.0	.....	33.0	44.5	6.0	44.5	14.5	3.0	.5	8.0	8.5	10.0
31	3.0	.....	30.0	.....	5.0	.....	14.5	2.0	.....	7.5	.....	10.5
1901.												
1	10.0	12.0	6.5	13.0	7.5	5.5	1.0	.....	5.5	1.5	0.7	1.7
2	10.0	10.5	6.5	13.5	7.0	6.0	1.0	.....	4.0	6.0	.7	1.7
3	9.0	16.8	9.0	15.5	6.0	7.0	1.0	.....	3.5	2.5	.7	1.7
4	8.0	21.5	9.0	18.0	5.0	9.0	1.0	.....	2.5	1.5	.0	3.5
5	7.0	25.5	8.5	17.0	4.5	9.0	1.0	.....	2.0	1.5	.0	2.0
6	6.0	26.5	7.0	16.0	5.0	11.0	1.0	.....	2.0	1.5	.0	2.0
7	5.5	27.5	6.5	15.0	4.0	12.0	1.0	.....	1.5	1.5	.0	2.0
8	5.0	29.0	6.5	14.0	3.5	10.0	1.0	.....	1.5	1.0	.0	3.5
9	4.5	30.5	6.5	11.0	3.5	8.0	1.0	.....	1.5	1.0	.7	5.0
10	4.0	31.0	13.0	9.5	3.0	6.5	1.0	.....	1.5	1.0	.7	6.5
11	18.0	31.0	18.0	8.0	3.0	5.5	5	.....	1.5	1.0	.7	5.5
12	29.5	31.0	19.5	7.5	3.5	4.5	5	.....	1.5	1.0	.7	4.7
13	33.0	30.0	20.0	9.0	4.0	4.0	5	.....	1.0	1.0	.7	4.2
14	35.0	29.5	24.5	8.0	7.0	3.5	.5	.....	1.0	1.0	.7	13.0
15	36.0	28.5	25.5	7.0	8.0	3.5	5	.....	1.0	1.0	.7	19.5
16	38.0	26.0	26.5	7.0	8.5	3.5	5	8.5	1.5	1.0	.7	22.0
17	39.0	23.0	26.5	6.5	8.0	3.0	5	15.0	2.0	1.0	1.0	23.0
18	39.5	16.0	26.0	20.0	7.0	3.0	.5	20.0	2.5	1.0	1.7	22.5
19	40.0	12.0	25.0	28.0	6.5	2.5	.5	22.5	6.0	1.0	1.7	22.0
20	40.5	10.0	23.0	29.5	9.0	2.0	1.0	23.0	.....	1.0	1.5	20.0
21	39.0	8.5	20.0	30.0	12.0	2.0	1.0	24.0	7.5	1.0	1.5	18.0
22	38.0	8.0	17.0	29.5	12.0	2.0	1.0	24.5	7.5	1.0	1.7	14.0
23	34.5	7.5	12.5	28.5	11.5	1.5	1.0	26.0	7.0	1.0	1.7	12.0
24	29.0	7.0	11.0	28.0	11.0	1.2	1.0	26.5	5.5	.5	1.8	9.0
25	24.5	6.5	12.0	27.0	10.0	1.0	1.0	26.0	4.0	.5	1.8	8.0
26	20.0	6.5	13.5	24.0	8.0	1.0	1.0	25.0	3.0	.5	2.0	7.0
27	16.0	6.5	13.5	18.0	6.5	1.0	.5	23.0	2.0	.5	2.0	7.0
28	15.0	6.5	11.5	13.0	6.5	1.0	.5	19.0	1.5	.5	2.0	12.0
29	14.0	.....	10.0	11.0	6.5	1.0	— .2	12.0	1.5	.5	1.9	20.0
30	13.0	.....	9.0	8.0	6.5	1.0	— .2	6.5	1.5	.5	1.8	26.0
31	12.7	.....	13.5	.....	7.0	.....	— .2	5.5	.....	.5	.....	27.0

Daily gage height, in feet, of Tombigbee River at Epes, Ala.—Continued.

Day	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1905												
1	9.0	15.5	39.6	7.2	16.6	5.7	5.9	2.9	4.4	1.3	2.8	2.2
2	8.5	15.0	37.8	6.8	18.8	5.3	7.8	4.0	3.2	2.45	2.55	2.2
3	8.0	15.3	34.7	6.4	18.8	4.4	8.8	5.6	2.75	2.4	2.35	2.25
4	7.5	15.7	28.5	6.2	17.6	3.6	8.6	4.6	3.0	1.95	2.25	2.35
5	6.5	21.5	22.0	7.8	16.4	3.2	8.8	4.1	2.6	4.7	2.05	3.6
6	6.0	26.5	14.7	10.2	15.0	2.85	9.2	3.7	2.6	4.0	1.9	4.4
7	5.5	28.5	11.2	11.5	12.7	2.6	8.5	3.15	2.6	3.5	1.9	4.3
8	5.5	28.3	9.2	11.4	13.6	2.35	7.8	3.05	2.3	3.3	1.8	4.9
9	5.5	29.9	8.8	11.1	16.6	2.3	7.1	2.8	2.8	3.3	1.5	4.7
10	7.5	41.5	14.4	10.8	18.1	2.65	6.1	2.85	2.4	2.9	1.8	4.3
11	19.5	42.6	18.0	11.0	18.1	2.4	5.7	3.4	2.0	2.8	2.25	3.95
12	24.0	43.6	18.6	14.4	17.6	2.05	7.7	3.2	2.0	3.9	3.85	3.65
13	26.5	44.7	18.8	16.7	17.1	2.0	8.1	12.6	2.7	4.3	5.4	3.45
14	27.0	45.2	19.8	16.2	15.8	2.4	7.0	13.1	4.5	4.3	5.5	3.45
15	26.5	45.5	20.6	15.2	13.5	2.9	6.2	12.0	3.25	4.2	5.6	4.5
16	25.9	45.6	20.8	15.2	9.6	2.1	5.0	10.8	3.2	4.3	5.6	9.8
17	25.0	45.5	18.7	14.0	7.7	2.0	4.1	9.9	3.05	6.6	4.8	13.6
18	24.5	45.5	15.1	12.2	6.9	3.35	3.15	10.6	2.85	6.8	4.0	13.7
19	24.0	44.9	12.0	10.8	6.6	4.3	2.8	10.6	2.5	5.9	3.45	11.9
20	22.0	44.2	12.1	10.0	5.9	4.2	2.5	10.2	2.15	5.4	3.1	12.3
21	15.5	43.5	16.3	9.2	5.6	4.2	1.95	8.6	1.9	4.8	2.85	14.0
22	13.0	42.9	19.6	10.0	5.9	3.85	1.65	6.9	2.6	3.65	2.75	15.6
23	10.5	42.2	22.8	10.5	8.4	3.3	1.6	6.4	2.6	2.8	2.55	15.7
24	9.5	41.5	22.4	10.2	9.3	4.2	1.7	6.2	2.2	2.4	2.5	15.4
25	8.5	41.0	21.5	12.2	7.9	5.0	1.65	6.1	2.0	2.2	2.4	15.1
26	6.5	40.5	19.2	16.6	10.5	5.8	2.2	6.9	1.85	2.0	2.4	14.6
27	6.1	40.2	17.2	15.0	13.9	6.6	2.5	7.6	1.65	1.85	2.25	13.8
28	6.5	40.0	14.6	12.6	11.8	6.9	2.6	8.8	1.6	2.25	2.2	13.8
29	10.0	.....	11.2	11.8	8.2	6.0	2.6	8.4	1.5	2.5	2.2	13.6
30	13.5	.....	9.3	12.6	6.8	6.2	3.3	7.5	1.3	2.7	2.2	12.7
31	14.5	.....	8.0	.....	6.7	.....	3.25	6.2	.....	3.0	.....	11.8
1906												
1	11.2	14.1	12.7	39.9	4.45	2.95	1.4	4.3	1.1	21.0	2.55	5.7
2	11.0	11.6	11.6	39.9	3.75	2.7	1.2	2.95	1.05	22.5	2.85	5.2
3	13.2	9.5	13.1	40.2	3.85	2.45	1.0	2.65	0.95	24.0	2.2	4.9
4	18.6	8.0	12.9	40.4	4.6	2.3	0.95	2.2	.9	24.4	2.2	4.15
5	21.4	7.2	13.2	40.5	6.7	2.7	.95	3.1	.9	25.1	2.1	3.75
6	22.4	6.4	12.6	40.2	12.4	3.15	.95	2.9	.8	29.2	2.0	3.7
7	21.9	5.8	12.4	39.1	17.2	3.3	.95	2.65	.6	31.4	1.9	3.6
8	21.3	5.3	12.6	36.8	19.2	3.0	.95	2.15	.6	33.1	1.9	3.65
9	21.0	5.0	11.8	32.6	20.0	2.65	.95	1.65	.55	33.2	1.85	3.9
10	20.4	4.7	10.3	27.0	19.2	2.45	1.1	1.4	.8	32.6	1.8	5.4
11	18.4	4.5	9.2	22.2	17.5	2.25	1.1	1.5	1.35	31.0	1.75	8.6
12	15.6	4.3	8.2	18.2	15.3	2.05	1.35	1.45	1.25	29.1	1.7	11.2
13	13.6	4.2	7.6	14.5	12.6	1.85	1.4	1.8	1.1	25.9	1.7	11.6
14	12.9	4.2	7.2	12.0	9.2	1.8	1.9	2.15	1.1	21.2	1.7	9.9
15	12.0	4.1	6.8	8.8	6.6	1.65	5.8	2.65	1.0	15.1	1.65	8.7
16	11.2	4.2	9.7	7.6	4.95	1.6	1.7	2.35	.9	10.7	1.55	2.3
17	10.2	4.35	14.2	7.1	4.2	2.15	4.3	2.55	.8	6.8	1.45	8.2
18	9.3	4.4	17.0	6.8	3.7	2.85	10.2	2.7	.8	5.8	1.35	10.4
19	8.6	4.35	35.1	6.5	3.45	2.6	14.4	2.5	.8	5.0	3.0	12.0
20	8.4	4.15	39.8	6.0	3.15	2.1	12.8	2.45	.8	4.5	6.2	12.6
21	8.4	4.25	41.2	6.2	2.9	1.8	11.4	2.3	.8	4.9	9.8	12.8
22	18.0	4.4	41.6	5.3	2.9	1.55	9.4	1.95	.7	5.3	11.8	12.8
23	22.3	4.4	41.7	4.9	2.6	1.35	7.5	1.8	.7	5.5	13.0	12.4
24	21.3	5.6	41.6	4.75	2.65	1.2	6.4	1.65	1.45	5.4	13.4	11.6
25	21.2	9.4	41.3	4.55	2.7	1.2	5.8	1.7	2.55	5.0	13.2	10.6
26	20.6	10.7	40.6	4.4	2.75	1.75	4.65	1.5	3.35	4.4	12.2	9.6
27	20.0	12.4	38.4	4.2	3.2	2.65	3.7	1.25	4.9	4.0	11.1	8.6
28	19.6	12.8	38.6	3.85	3.65	2.1	3.1	1.15	12.7	3.6	8.9	7.8
29	18.6	.....	38.7	3.8	3.75	1.75	2.85	1.05	17.6	3.3	8.0	7.2
30	17.2	.....	39.2	3.9	3.55	1.45	4.45	1.1	19.5	3.0	7.0	7.7
31	15.3	.....	39.7	.....	3.3	.....	5.5	1.15	.....	2.75	.....	16.2

Daily gage height, in feet, of Tombigbee River at Epes, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1907.												
1	19.9	14.2	26.4	4.35	16.0	22.1	4.25	2.85	0.9	1.4	0.5	3.35
2	20.6	20.7	33.1	4.3	20.2	20.8	6.0	2.6	.85	.9	.65	3.05
3	18.8	25.4	36.0	4.15	22.9	19.7	4.55	2.25	.8	1.0	.7	2.85
4	17.2	29.4	37.0	3.8	21.8	18.8	4.25	2.05	.8	.95	.7	2.65
5	15.2	32.8	37.1	4.05	25.7	18.8	4.5	1.85	.7	.75	.9	2.5
6	14.0	34.7	36.8	5.0	28.4	18.9	3.85	1.85	.7	.65	1.05	2.35
7	12.4	35.2	36.6	7.8	30.4	18.8	3.75	1.55	.7	.6	1.4	2.15
8	11.4	35.4	36.3	8.1	32.6	17.8	3.65	1.35	.7	.65	1.5	2.0
9	10.4	34.9	35.8	7.9	34.6	15.8	3.3	1.2	1.05	.65	1.4	2.35
10	9.4	33.8	35.0	7.7	35.0	13.1	2.9	1.2	.85	.7	1.35	2.5
11	8.7	30.3	32.2	7.4	34.7	10.6	2.4	1.3	.7	.7	1.2	3.05
12	8.4	25.1	30.4	6.6	34.0	8.8	2.15	1.25	.65	.95	1.1	3.3
13	8.2	19.6	28.6	5.8	33.4	8.5	2.2	1.15	.7	1.35	1.0	3.75
14	8.2	15.8	19.9	5.2	33.2	8.2	2.35	1.1	.7	1.65	1.25	4.3
15	8.0	12.6	14.8	4.6	36.1	8.1	2.7	1.1	.75	1.8	1.5	4.95
16	7.6	9.2	12.6	4.4	36.6	7.8	3.3	1.2	.7	1.55	1.5	5.2
17	7.2	7.8	13.1	8.5	36.7	8.6	4.15	1.2	.7	1.3	1.5	4.95
18	6.6	6.9	14.0	9.2	36.0	9.3	3.45	1.25	.7	1.05	1.4	4.5
19	6.1	6.4	14.4	12.3	35.2	8.0	3.1	1.25	.65	.85	1.4	4.15
20	6.2	6.0	14.4	11.7	34.1	6.4	2.85	4.1	.5	.75	1.4	4.0
21	6.4	5.6	13.8	11.3	33.1	5.4	2.55	2.8	.5	.6	1.5	3.85
22	6.6	5.4	12.4	12.4	32.0	4.5	2.3	2.25	.5	.6	2.0	4.35
23	7.3	5.2	11.0	14.5	30.5	4.05	2.1	2.6	.5	.6	2.5	5.7
24	7.7	5.2	9.2	14.4	28.3	4.25	2.1	2.9	1.35	.6	3.35	4.9
25	7.6	7.3	8.3	12.4	25.2	4.0	2.0	2.4	1.2	.5	4.05	4.55
26	7.2	9.7	7.1	9.8	20.9	3.8	2.0	2.3	1.3	.5	4.45	6.1
27	6.7	13.6	6.2	7.8	17.6	4.05	1.95	2.3	1.65	.5	4.5	5.4
28	5.8	18.2	5.6	7.2	20.3	4.2	1.95	1.7	1.9	.5	4.3	5.9
29	5.3	.....	5.2	6.4	22.8	3.85	2.85	1.3	1.35	.5	3.95	9.0
30	5.0	.....	4.7	6.0	23.7	4.25	3.45	1.15	1.6	.5	3.75	10.2
31	7.4	.....	4.7	.....	22.8	.....	3.1	.95	.....	.5	.....	10.3
1908.												
1	9.5	13.7	38.9	39.7	18.0	6.0	2.6	3.25	1.95	1.05	.5	1.8
2	10.0	15.3	34.9	39.1	16.5	6.8	2.6	4.85	1.75	1.0	.5	2.2
3	10.5	16.3	29.4	37.2	13.4	6.4	2.8	13.4	1.6	.85	.65	2.1
4	11.0	15.7	23.1	33.3	10.8	6.0	2.4	12.6	1.35	.8	.7	2.0
5	12.3	14.8	18.5	28.8	15.2	8.2	2.2	14.0	1.3	.7	.7	2.0
6	12.9	14.7	15.6	18.4	30.2	13.2	2.7	13.5	1.3	.7	.7	2.2
7	13.5	14.9	14.5	12.9	33.6	16.2	2.95	11.0	1.45	.7	.7	3.35
8	13.7	15.3	14.2	9.0	35.0	17.4	3.8	8.7	1.6	.7	.7	9.6
9	13.5	15.1	14.5	8.5	35.4	17.9	4.25	8.7	1.25	.8	.7	12.8
10	12.9	16.3	15.1	9.0	35.2	18.4	5.2	9.6	1.15	.8	.8	13.8
11	13.9	18.9	15.1	9.2	35.0	18.2	6.0	8.4	1.0	.8	.8	13.6
12	14.8	20.2	14.5	8.6	34.6	16.6	6.2	7.0	1.0	.8	.8	13.0
13	14.1	21.6	13.7	7.6	34.1	13.7	6.0	5.4	.95	.8	.8	11.1
14	12.9	27.7	13.0	6.8	32.8	13.2	5.2	4.55	.85	.95	.8	9.0
15	11.8	35.2	11.4	12.2	30.0	11.7	4.2	4.0	.75	1.1	.8	7.4
16	11.5	37.3	9.7	17.5	26.4	10.2	3.45	3.4	.7	1.05	.8	6.6
17	11.2	38.3	7.7	18.4	25.6	8.9	2.95	2.95	.7	.85	.8	6.0
18	10.9	38.7	7.1	16.0	25.8	8.4	2.35	2.75	.7	.8	.9	5.6
19	10.7	41.3	6.9	15.5	28.0	7.8	2.1	4.05	.7	.7	.95	5.2
20	10.3	42.3	6.7	15.1	28.6	6.7	2.55	5.8	.7	.7	1.1	4.6
21	9.8	43.1	6.6	14.2	28.8	5.8	2.85	4.95	.7	.7	1.1	4.15
22	9.7	43.7	10.1	13.1	27.0	5.4	3.25	3.2	.7	.7	1.1	5.9
23	9.7	44.1	21.3	11.8	24.5	4.9	3.9	2.65	.7	.7	1.1	12.1
24	8.7	44.3	28.8	9.8	21.0	4.45	4.35	2.85	.9	.6	1.1	16.4
25	7.9	44.5	32.7	14.3	17.1	4.05	4.15	3.35	2.95	.6	1.1	17.1
26	7.3	44.5	34.5	17.4	13.7	3.55	4.5	4.05	2.75	.5	1.1	16.5
27	6.7	44.1	35.7	18.2	10.6	3.35	3.7	4.4	2.3	.5	1.1	15.4
28	6.1	43.1	36.6	18.2	8.8	3.1	4.2	4.2	2.0	.5	1.15	13.6
29	5.5	41.5	37.6	18.1	7.4	2.8	4.45	3.4	1.6	.5	1.25	11.5
30	5.1	.....	38.6	18.1	6.4	2.6	4.0	2.8	1.25	.5	1.45	8.8
31	6.3	.....	39.4	.....	5.6	.....	3.8	2.3	.....	.5	.....	7.3

Daily gage height, in feet, of Tombigbee River at Epes, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1909												
1	6.7	3.95	40.6	31.2	44.0	35.4	18.0	3.7	1.1	0.9	0.8	1.6
2	6.4	3.75	40.6	25.2	44.0	37.2	14.8	2.75	1.1	.9	.8	1.5
3	6.4	3.55	40.6	19.4	43.6	39.9	13.2	3.95	1.1	.8	.8	1.45
4	6.4	3.5	40.3	15.8	42.5	42.3	11.8	5.6	1.1	.8	.8	1.4
5	6.2	3.5	40.0	11.6	40.6	43.8	10.3	5.6	1.0	.75	.8	1.45
6	7.0	3.85	39.5	9.2	37.4	44.5	9.4	4.9	1.0	.7	.8	1.65
7	7.6	4.25	38.1	10.0	33.2	44.8	8.4	4.35	.95	.7	.8	1.9
8	8.0	5.0	36.0	13.2	27.1	44.8	7.2	4.2	.95	.65	.8	2.35
9	8.2	7.2	34.6	15.2	21.6	44.7	6.5	4.05	1.2	.6	.8	2.55
10	7.8	14.6	33.8	16.0	16.8	44.0	7.6	3.6	1.55	.6	.8	2.75
11	7.0	18.6	32.5	16.2	12.3	43.0	10.5	3.35	1.45	.6	.8	3.0
12	6.3	21.4	37.2	16.4	8.8	40.4	11.1	3.4	1.25	.6	.8	3.5
13	5.8	22.8	40.9	18.2	7.3	37.2	10.5	2.95	1.1	.6	.8	3.9
14	5.8	26.1	42.4	19.8	6.5	34.4	9.8	2.9	1.25	.55	.9	3.75
15	6.6	28.5	43.4	20.5	6.0	30.2	8.4	2.85	1.1	.5	1.0	3.85
16	7.6	30.4	44.4	20.5	5.6	27.8	9.0	2.65	1.25	.5	1.0	3.9
17	9.6	31.5	45.4	19.8	5.3	25.8	9.3	2.45	1.6	.5	1.0	3.75
18	10.7	32.2	47.2	19.8	5.2	23.0	9.0	2.3	1.45	.5	1.0	3.55
19	11.1	33.5	48.5	19.8	8.0	20.0	8.9	2.2	1.4	.5	1.1	3.35
20	11.2	34.4	49.5	19.7	10.6	17.0	7.6	2.1	1.3	.75	1.2	3.15
21	10.9	35.4	49.7	18.2	14.0	16.1	5.7	1.85	1.3	1.2	1.35	2.95
22	9.4	36.4	49.5	14.6	12.0	27.5	4.7	1.7	1.3	1.85	1.55	2.65
23	8.6	37.4	49.0	10.6	8.8	34.4	4.2	1.7	1.2	1.85	1.75	2.65
24	7.6	38.6	48.5	27.6	8.0	36.3	3.8	1.6	1.15	1.8	1.75	2.5
25	7.1	39.2	47.8	33.2	12.5	36.2	3.35	1.5	1.2	1.65	1.6	2.65
26	6.6	40.1	47.1	40.2	19.0	35.2	3.2	1.4	1.05	1.5	1.6	2.9
27	6.2	40.4	46.4	41.6	26.9	33.4	3.2	1.3	1.0	1.4	1.6	3.55
28	5.8	40.6	45.4	42.6	30.0	30.6	3.2	1.2	.9	1.25	1.75	4.3
29	5.4	.....	43.9	43.2	33.0	26.9	3.2	1.2	.9	1.15	1.85	5.2
30	4.7	.....	41.4	43.6	33.2	22.4	3.95	1.2	.9	1.0	1.75	5.6
31	4.3	.....	37.2	.....	33.6	.....	4.4	1.2	.....	.9	.....	5.2
1910												
1	4.65	5.0	26.4	3.25	2.75	4.25	11.8	4.3	1.55	0.6	0.8	1.2
2	3.95	5.0	26.4	3.2	2.65	3.35	12.5	4.85	1.5	.5	.9	1.3
3	3.55	6.0	25.4	3.2	2.5	2.9	13.5	4.5	1.4	.5	.95	1.75
4	3.05	5.0	23.0	3.1	2.35	2.45	15.6	4.2	1.4	.6	1.0	1.85
5	2.85	4.2	20.6	3.1	2.2	2.95	16.0	4.2	1.5	.6	1.0	2.0
6	4.7	3.95	18.1	3.3	2.1	4.25	16.2	5.8	1.6	.7	1.0	1.9
7	7.0	3.8	14.9	3.9	2.0	4.55	16.4	5.6	2.0	1.4	1.0	1.8
8	7.5	4.05	12.0	3.9	1.9	3.5	17.2	6.0	1.75	1.15	1.0	2.35
9	9.9	4.05	10.1	4.0	1.8	3.0	19.2	6.4	1.6	1.05	1.1	3.35
10	11.0	3.85	9.0	4.15	1.7	6.7	22.4	5.8	1.55	1.1	1.1	4.05
11	11.6	4.75	8.8	4.15	1.7	14.2	24.4	5.2	1.4	1.2	1.15	4.05
12	11.7	5.8	8.6	3.95	1.65	16.8	26.3	4.55	1.3	1.35	1.1	3.35
13	10.5	5.2	8.4	3.5	1.6	16.7	27.4	4.1	1.2	1.3	1.1	3.2
14	9.2	4.8	8.2	3.15	1.6	16.2	28.6	3.9	1.1	1.3	1.1	2.85
15	8.1	4.8	7.5	2.85	1.55	16.0	29.3	3.4	1.0	1.3	1.0	2.45
16	7.3	4.95	6.4	3.1	1.4	15.2	29.6	3.2	.9	1.3	1.0	2.15
17	6.5	5.8	5.7	6.5	1.4	12.5	29.0	3.2	.8	1.3	.9	2.0
18	5.6	10.0	5.2	7.2	1.3	9.0	27.3	2.9	.8	2.15	1.0	2.15
19	5.0	15.4	4.85	8.9	1.3	6.6	24.3	3.0	.7	2.85	1.0	2.1
20	4.75	17.8	4.8	8.4	1.3	5.1	19.3	2.2	.7	2.6	.95	2.0
21	5.0	19.0	4.6	8.2	1.5	4.05	13.2	1.95	.7	2.2	.9	1.9
22	8.3	20.8	4.45	8.0	1.95	8.4	10.0	1.95	.6	1.85	.95	1.9
23	11.0	21.8	4.25	7.8	3.05	3.2	9.2	1.9	.6	1.35	.9	2.05
24	12.0	22.9	4.15	8.9	6.8	8.9	8.9	2.0	.7	1.2	.9	2.45
25	12.5	23.6	4.05	8.8	8.4	6.6	9.2	2.3	.7	1.15	.9	2.6
26	12.8	23.6	4.0	4.05	9.5	6.4	9.4	2.8	.85	1.0	.9	3.65
27	12.1	24.1	3.9	3.6	13.2	6.8	9.4	2.45	.85	.9	.9	4.45
28	10.8	26.2	3.85	3.25	10.4	6.8	8.8	2.15	.7	.85	.95	4.9
29	9.2	.....	3.85	3.05	8.8	6.8	7.8	2.0	.65	.85	1.0	4.8
30	6.8	.....	3.45	2.9	6.8	12.0	6.2	1.85	.6	.85	1.2	4.5
31	5.8	.....	3.35	.....	6.4	.....	5.0	1.65	.....	.8	.....	3.8

Daily gage height, in feet, of Tombigbee River at Epes, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1911												
1	3.75	5.1	11.1	9.0	23.9	2.75	5.0	4.0	3.6	0.7	0.9	3.7
2	21.6	5.0	13.6	7.7	31.5	2.45	4.5	4.1	3.0	.6	.9	3.8
3	26.3	4.9	15.0	6.5	28.7	2.25	4.0	4.2	2.6	.6	.9	3.9
4	27.4	4.75	16.4	5.7	25.0	2.1	4.1	5.0	2.2	.6	.9	3.7
5	27.5	4.5	17.3	9.9	19.8	2.0	2.9	5.2	2.0	.6	.9	3.4
6	28.0	4.35	17.5	20.4	14.5	1.85	2.3	5.4	2.0	.5	1.0	3.0
7	28.4	6.2	16.0	28.8	10.7	1.8	2.0	5.2	1.6	.5	1.1	2.6
8	29.3	5.4	11.7	26.0	8.8	1.75	1.9	4.8	1.8	.5	1.8	2.4
9	29.9	10.8	9.2	27.9	7.6	1.65	2.0	4.2	1.8	.5	4.0	2.3
10	29.9	14.6	8.0	29.5	7.0	1.65	2.0	3.7	1.6	.5	2.7	2.2
11	28.8	15.8	7.6	31.4	6.4	1.65	1.9	4.0	1.6	.6	2.4	2.6
12	28.6	15.0	7.0	33.3	5.7	1.65	1.9	4.2	1.8	.6	2.8	8.8
13	16.5	19.6	6.5	34.0	5.0	1.45	2.0	3.9	1.9	.6	3.4	15.4
14	11.2	20.7	5.9	35.7	4.55	1.25	3.9	3.3	1.9	.6	3.0	22.6
15	8.6	21.2	5.3	36.4	4.2	1.35	10.4	2.7	1.9	.6	2.8	26.6
16	7.3	21.2	4.9	36.6	3.9	1.25	12.4	2.5	1.8	.7	2.6	30.0
17	6.6	20.6	4.75	36.6	3.6	1.15	12.2	2.5	1.8	1.4	2.6	30.8
18	5.8	19.0	4.5	36.1	3.4	1.15	8.4	4.6	1.7	1.5	2.6	30.8
19	5.1	16.8	4.3	34.9	3.2	1.15	6.4	6.0	1.6	1.4	2.8	30.2
20	4.7	14.7	4.15	33.1	3.05	1.15	5.3	6.2	1.4	1.3	2.7	30.4
21	4.4	12.8	4.0	31.1	2.9	1.2	4.6	6.6	1.2	1.6	2.5	31.5
22	4.2	12.0	4.15	30.0	3.0	1.25	4.1	7.1	1.0	2.0	2.6	33.6
23	4.0	11.4	4.7	29.8	3.7	1.75	4.1	6.6	1.0	2.0	2.8	36.1
24	3.9	10.7	4.7	30.5	5.0	1.6	10.0	6.5	.9	1.8	2.7	36.8
25	4.05	9.4	4.75	31.8	5.0	2.05	12.9	6.1	.9	1.6	2.4	37.0
26	4.05	8.0	4.5	33.0	5.2	3.3	12.8	5.7	.9	1.3	2.2	37.2
27	3.9	7.3	4.45	34.0	5.3	3.95	11.8	5.1	.8	1.2	2.1	37.4
28	3.75	7.2	4.85	35.4	4.9	4.95	10.9	4.2	.8	1.1	5.1	37.0
29	3.95	.....	7.5	35.8	4.35	4.8	9.2	3.6	.8	1.0	5.2	37.0
30	4.35	.....	9.3	35.2	3.5	5.0	7.0	3.7	.7	1.0	4.0	37.2
31	5.2	.....	9.9	.....	3.1	.....	5.2	3.9	.....	.9	.....	38.2
1912												
1	38.7	28.2	29.6	43.8	45.1	4.8	9.9	3.4	3.4	4.4	2.8	2.3
2	39.4	28.4	30.0	44.1	44.2	5.6	11.8	3.1	2.5	4.2	2.6	2.4
3	39.8	28.6	30.7	44.4	43.2	7.6	15.2	2.9	2.6	4.0	2.5	2.9
4	40.0	28.9	31.2	44.7	42.4	7.0	16.7	2.8	2.7	3.8	2.4	6.7
5	40.1	28.8	29.8	45.2	41.7	6.8	16.4	2.7	2.6	3.7	2.4	12.6
6	39.8	27.4	28.1	45.6	41.8	6.4	15.8	2.8	2.4	3.4	2.5	17.1
7	39.3	26.8	26.6	46.0	41.8	7.2	14.7	3.4	2.4	3.1	2.8	19.6
8	39.6	18.4	26.8	46.4	41.8	7.7	13.1	3.0	2.0	2.8	2.8	22.1
9	39.9	12.8	28.6	46.8	41.4	6.0	11.3	2.9	2.0	2.4	2.9	23.2
10	39.8	12.2	29.2	46.4	40.4	5.1	10.4	3.6	1.8	2.2	3.0	23.9
11	39.4	12.4	29.4	45.9	39.2	4.6	11.3	8.0	1.8	2.1	3.2	24.4
12	38.4	11.6	32.6	45.1	37.4	4.0	11.6	10.5	1.7	2.0	3.2	25.2
13	36.6	10.8	33.3	44.1	35.6	4.5	10.7	10.6	1.7	2.3	3.0	24.8
14	34.5	11.8	34.5	42.6	33.8	8.6	9.9	9.4	1.7	2.3	3.0	23.8
15	31.7	13.3	37.5	41.2	30.8	8.0	9.4	8.7	2.4	1.5	2.8	21.2
16	27.2	12.4	38.8	42.1	26.2	5.2	8.3	8.9	2.6	1.8	2.7	18.0
17	22.8	11.5	39.6	44.2	20.2	4.3	7.3	8.2	2.5	1.8	2.8	14.5
18	17.6	10.9	40.0	45.2	15.1	4.2	7.3	7.2	5.2	1.8	2.7	11.0
19	15.6	10.2	40.2	46.2	11.9	4.3	9.0	6.7	6.4	2.0	2.7	9.0
20	17.5	9.6	40.4	47.5	10.0	4.1	12.5	6.0	6.0	2.1	2.6	8.6
21	20.0	12.8	40.4	48.4	8.8	3.6	13.4	5.0	5.4	5.7	2.5	8.4
22	20.9	18.4	40.2	49.1	7.8	3.3	12.4	4.4	5.4	7.6	2.4	8.2
23	21.0	21.0	40.3	49.5	7.2	3.1	11.5	4.0	5.6	7.6	2.4	9.0
24	21.0	22.6	41.2	49.2	6.7	3.0	9.5	4.4	5.8	6.8	2.3	14.2
25	24.0	25.0	40.6	48.8	6.2	2.9	7.6	5.8	5.8	6.5	2.3	17.0
26	18.0	26.8	40.2	48.3	5.8	3.0	6.4	6.6	6.0	6.2	2.3	18.7
27	14.0	28.4	39.1	47.8	5.5	3.6	5.4	6.4	5.4	5.6	2.2	19.4
28	11.9	29.2	39.0	47.2	5.3	5.0	5.0	5.9	4.6	5.0	2.2	19.6
29	22.6	29.4	41.0	46.7	5.4	7.0	4.6	5.0	3.8	4.2	2.2	19.4
30	25.9	.....	43.0	46.0	5.6	9.1	4.0	4.4	3.4	3.5	2.3	19.0
31	27.6	.....	43.5	.....	5.2	.....	3.6	3.9	.....	3.0	.....	18.8

Daily gage height, in feet, of Tombigbee River at Epes, Ala.—Continued.

Day. 1918	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.
1	18.7	40.2	33.4	27.2	5.6	7.0	1.8	2.8
2	18.4	40.5	36.3	26.8	5.2	6.2	2.0	2.8
3	19.5	41.4	38.2	25.3	4.8	5.4	2.2	3.6
4	20.2	42.2	39.6	25.1	4.6	4.4	2.6	3.4
5	20.5	42.6	40.8	27.3	4.4	4.0	3.7	2.2
6	20.0	42.4	41.6	26.9	4.2	4.0	3.9	2.9
7	20.0	41.9	42.2	25.5	4.0	4.0	3.4	2.5
8	21.0	40.5	42.5	24.0	3.8	4.6	2.8	2.2
9	21.5	37.8	42.3	23.1	3.8	6.6	2.4	1.9
10	22.6	34.0	43.1	22.3	4.2	6.4	2.2	1.8
11	23.6	28.0	42.2	19.6	4.2	6.0	2.0	1.6
12	26.6	27.1	40.8	16.2	4.0	5.6	1.8	1.5
13	28.7	29.8	40.4	15.6	3.8	5.0	2.2	1.4
14	30.0	32.0	40.4	16.4	3.6	4.4	2.7	1.3
15	30.9	33.7	40.6	17.2	3.6	3.8	4.8	1.3
16	31.2	34.6	40.6	15.8	3.6	3.4	5.6	1.3
17	30.6	36.2	40.2	13.8	3.6	3.0	4.2	1.3
18	31.4	37.0	39.7	12.0	3.8	2.8	3.2	1.3
19	31.1	37.6	39.2	10.8	4.2	2.6	2.7	1.3
20	30.2	37.6	39.0	10.0	4.6	2.5	2.4	1.2
21	29.4	35.9	39.4	8.9	5.0	2.4	2.0	1.4
22	28.4	32.7	39.8	7.8	9.0	2.3	1.8	1.4
23	27.6	28.4	39.8	7.0	23.0	2.2	2.2	1.3
24	28.9	24.2	39.2	6.6	37.0	2.1	1.8	1.2
25	31.0	20.1	37.6	6.0	28.1	2.0	2.0	1.2
26	31.1	16.6	35.6	5.8	27.2	2.0	2.6	1.2
27	35.2	19.4	34.0	5.6	24.2	1.9	2.3	1.2
28	37.0	28.6	31.8	5.7	19.0	1.8	2.2	1.4
29	38.0	.....	29.8	5.8	14.3	1.8	2.8	1.4
30	38.6	.....	28.4	5.8	10.6	1.8	3.3	1.4
31	39.6	.....	27.6	.....	8.0	.....	3.0	1.2

Rating table for Tombigbee River near Epes for 1900 and 1901.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
—0.2	810	1.8	1,688	5.5	5,308	12.5	13,500
— .1	840	1.4	1,758	6.0	5,820	13.0	14,100
.0	880	1.5	1,829	6.5	6,350	13.5	14,700
.1	830	1.6	1,903	7.0	6,900	14.0	15,300
.2	985	1.7	1,976	7.5	7,500	14.5	15,900
.3	1,043	1.8	2,050	8.0	8,100	15.0	16,500
.4	1,103	1.9	2,125	8.5	8,700	15.5	17,100
.5	1,164	2.0	2,200	9.0	9,300	16.0	17,700
.6	1,226	2.5	2,590	9.5	9,900	17.0	18,900
.7	1,289	3.0	3,002	10.0	10,500	18.0	20,100
.8	1,353	3.5	3,432	10.5	11,100	19.0	21,300
.9	1,418	4.0	3,878	11.0	11,700	20.0	22,500
1.0	1,484	4.5	4,338	11.5	12,300	21.0	23,700
1.1	1,551	5.0	4,815	12.0	12,900	22.0	24,900
1.2	1,619						

Station-rating table for Tombigbee River at Epes, Ala., from January 1 to December 31, 1905.

Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.
Feet.	*Second-feet.*	*Feet.*	*Second-feet.*	*Feet.*	*Second-feet.*	*Feet.*	*Second-feet.*
1.30	1,195	2.40	1,855	3.50	2,690	4.60	3,680
1.40	1,250	2.50	1,925	3.60	2,780	4.70	3,775
1.50	1,305	2.60	1,995	3.70	2,870	4.80	3,870
1.60	1,360	2.70	2,065	3.80	2,960	4.90	3,965
1.70	1,420	2.80	2,140	3.90	3,050	5.00	4,060
1.80	1,480	2.90	2,215	4.00	3,140	5.20	4,250
1.90	1,540	3.00	2,290	4.10	3,230	5.40	4,450
2.00	1,600	3.10	2,370	4.20	3,320	5.60	4,652
2.10	1,660	3.20	2,450	4.30	3,410	5.80	4,856
2.20	1,725	3.30	2,530	4.40	3,500	6.00	5,060
2.30	1,790	3.40	2,610	4.50	3,590		

The above table is based on seven discharge measurements made during 1904–5. It is fairly well defined between gage heights 1.8 feet and 15 feet. Above gage height 6 feet the rating curve is a tangent, the difference being 104 per tenth.

Rating table for Tombigbee River at Epes, Ala., for 1906.

Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.
Feet.	*Sec.-ft.*	*Feet.*	*Sec.-ft.*	*Feet.*	*Sec.-ft.*	*Feet.*	*Sec.-ft.*
0.50	770	1.80	1,480	3.10	2,370	4.80	3,870
0.60	810	1.90	1,540	3.20	2,450	5.00	4,060
0.70	850	2.00	1,600	3.30	2,530	5.20	4,250
0.80	900	2.10	1,660	3.40	2,610	5.40	4,450
0.90	950	2.20	1,725	3.50	2,690	5.60	4,652
1.00	1,000	2.30	1,790	3.60	2,780	5.80	4,856
1.10	1,060	2.40	1,855	3.70	2,870	6.00	5,060
1.20	1,120	2.50	1,925	3.80	2,960	6.20	5,268
1.30	1,180	2.60	1,995	3.90	3,050	6.40	5,476
1.40	1,240	2.70	2,065	4.00	3,140	6.60	5,684
1.50	1,300	2.80	2,140	4.20	3,320	6.80	5,892
1.60	1,360	2.90	2,215	4.40	3,500	7.00	6,100
1.70	1,420	3.00	2,290	4.60	3,680		

NOTE.—The above table is based on nine discharge measurements made during 1904–1906, and is well defined between gage heights 0.9 feet and 15.6 feet. Above gage height 6 feet the rating curve is a tangent, the difference being 104 per tenth.

Rating table for Tombigbee River at Epes, Ala., for 1907 and 1908.

Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.
Feet.	*Sec.-ft.*	*Feet.*	*Sec.-ft.*	*Feet.*	*Sec.-ft.*	*Feet.*	*Sec.-ft.*
0.50	640	2.80	2,140	6.20	5,268	20.00	25,860
.60	695	2.90	2,215	6.40	5,476	27.00	26,900
.70	750	3.00	2,290	6.60	5,684	28.00	27,940
.80	810	3.10	2,370	6.80	5,892	29.00	28,980
.90	870	3.20	2,450	7.00	6,100	30.00	30,020
1.00	930	3.30	2,530	8.00	7,140	31.00	31,060
1.10	990	3.40	2,610	9.00	8,180	32.00	32,100
1.20	1,055	3.50	2,690	10.00	9,220	33.00	33,140
1.30	1,120	3.60	2,780	11.00	10,260	34.00	34,180
1.40	1,185	3.70	2,870	12.00	11,300	35.00	35,220
1.50	1,250	3.80	2,960	13.00	12,340	36.00	36,260
1.60	1,315	3.90	3,050	14.00	13,380	37.00	37,300
1.70	1,380	4.00	3,140	15.00	14,420	38.00	38,340
1.80	1,445	4.20	3,320	16.00	15,460	39.00	39,380
1.90	1,510	4.40	3,500	17.00	16,500	40.00	40,420
2.00	1,575	4.60	3,680	18.00	17,540	41.00	41,460
2.10	1,645	4.80	3,870	19.00	18,580	42.00	42,500
2.20	1,715	5.00	4,060	20.00	19,620	43.00	43,540
2.30	1,785	5.20	4,250	21.00	20,660	44.00	44,580
2.40	1,855	5.40	4,450	22.00	21,700	45.00	45,620
2.50	1,925	5.60	4,652	23.00	22,740		
2.60	1,995	5.80	4,856	24.00	23,780		
2.70	2,065	6.00	5,060	25.00	24,820		

NOTE.—The above table is not applicable for obstructed-channel conditions. It is based on 11 discharge measurements made during 1905–1908, and is well defined. Above gage height, 6 feet, the rating curve is a tangent, the difference being 104 per tenth.

Daily discharge, in second-feet, of Tombigbee River at Epes, Ala.

Day.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1909												
1	5,790	3,020	41,000	31,300	44,600	35,600	17,500	2,790	832	730	682	1,120
2	5,480	2,840	41,000	25,000	44,600	37,500	14,200	1,950	832	730	682	1,060
3	5,480	2,660	41,000	19,000	44,200	40,300	12,500	3,020	832	682	682	1,030
4	5,480	2,610	40,700	15,300	43,000	42,800	11,100	4,650	832	682	682	997
5	5,270	2,610	40,400	10,900	41,000	44,400	9,530	4,650	780	659	682	1,080
6	6,100	2,930	39,900	8,390	37,700	45,100	8,600	3,960	780	636	682	1,140
7	6,720	3,310	38,400	9,220	33,300	45,400	7,560	3,410	755	636	682	1,300
8	7,140	4,060	36,300	12,500	27,000	45,400	6,310	3,260	755	614	682	1,620
9	7,350	6,310	34,800	14,600	21,300	45,300	5,580	3,120	886	592	682	1,780
10	6,930	14,000	34,000	15,500	16,300	44,600	6,720	2,700	1,080	592	682	1,950
11	6,100	18,200	32,600	15,700	11,600	43,500	9,740	2,480	1,030	592	682	2,160
12	5,370	21,100	37,500	15,900	7,970	40,800	10,400	2,520	914	592	682	2,610
13	4,860	22,500	41,400	17,700	6,410	37,500	9,740	2,120	832	592	682	2,980
14	4,860	26,000	42,900	19,400	5,580	34,600	9,010	2,080	914	571	730	2,840
15	5,680	28,500	44,000	20,100	5,060	30,200	7,560	2,030	832	550	780	2,930
16	6,720	30,400	45,000	20,100	4,650	27,700	8,180	1,870	914	550	780	2,980
17	8,800	31,600	46,000	19,400	4,350	25,700	8,490	1,700	1,120	550	780	2,840
18	9,950	32,300	47,900	19,400	4,250	22,700	8,180	1,580	1,030	550	780	2,660
19	10,400	33,700	49,300	19,400	7,140	19,600	8,080	1,510	997	550	832	2,480
20	10,500	34,600	50,300	19,300	9,840	10,500	8,080	1,510	997	550	832	2,480
21	10,200	35,600	50,500	17,700	13,400	15,600	4,750	1,270	941	886	969	2,120
22	8,600	36,700	50,300	14,000	11,300	27,400	3,760	1,180	941	1,270	1,080	1,870
23	7,760	37,700	49,800	19,200	7,970	34,600	3,260	1,180	886	1,270	1,210	1,870
24	6,720	39,000	49,300	27,500	7,140	36,600	2,890	1,120	859	1,240	1,210	1,740
25	6,200	39,600	48,500	33,300	11,800	36,500	2,480	1,060	886	1,140	1,120	1,870
26	5,680	40,500	47,800	40,600	18,600	35,400	2,340	997	806	1,060	1,120	2,080
27	5,270	40,800	47,100	42,100	26,800	33,600	2,340	941	780	997	1,120	2,660
28	4,860	41,000	46,000	43,100	30,000	30,600	2,340	886	730	914	1,210	3,360
29	4,450	.....	44,500	43,700	33,100	26,800	2,340	886	730	859	1,270	4,250
30	3,760	.....	41,900	44,200	33,300	22,100	3,020	886	730	780	1,210	4,650
31	3,360	.....	37,500	.....	33,800	.....	3,460	886	.....	730	.....	4,250
1910												
1	3,710	4,060	26,300	2,380	1,950	3,310	11,100	3,360	1,080	592	992	886
2	3,020	4,060	26,300	2,340	1,870	2,480	11,800	3,910	1,060	550	730	941
3	2,660	5,060	25,200	2,340	1,740	2,080	12,900	3,560	997	550	758	1,210
4	2,200	4,060	22,700	2,250	1,620	1,700	15,000	3,260	997	592	780	1,270
5	2,060	3,260	20,200	2,250	1,510	2,120	15,300	3,260	1,060	592	780	1,370
6	3,760	3,020	17,600	2,430	1,440	3,310	15,700	4,860	1,120	636	780	1,300
7	6,100	2,890	14,300	2,980	1,370	3,610	15,900	4,650	1,370	997	780	1,240
8	6,620	3,120	11,300	2,980	1,300	2,510	16,700	5,060	1,210	859	780	1,630
9	9,120	3,120	9,320	3,070	1,240	2,160	18,980	5,480	1,120	806	832	2,480
10	10,300	2,920	8,180	3,210	1,180	5,790	22,100	4,860	1,080	832	832	3,120
11	10,900	3,810	7,970	3,210	1,180	13,600	24,200	4,250	997	886	859	3,120
12	11,000	4,860	7,760	3,020	1,140	16,300	26,200	3,610	941	969	832	2,480
13	9,740	4,250	7,560	2,610	1,120	16,200	27,300	3,170	886	941	832	2,340
14	8,390	3,860	7,350	2,300	1,120	15,700	28,600	2,980	832	941	832	2,080
15	7,240	3,360	6,620	2,030	1,080	15,300	29,300	2,520	780	941	780	1,700
16	6,410	4,010	5,480	2,250	997	14,600	29,600	2,340	730	941	780	1,480
17	5,580	4,860	4,750	5,580	997	11,800	29,000	2,340	682	941	730	1,370
18	4,660	9,220	4,250	6,310	941	8,180	27,200	2,080	682	1,480	780	1,480
19	4,080	14,800	3,910	8,080	941	5,680	24,100	2,160	636	2,080	780	1,440
20	3,810	17,300	3,860	7,560	941	4,160	18,900	1,510	636	1,820	755	1,370
21	4,060	18,600	3,660	7,350	1,060	3,120	12,500	1,340	636	1,510	730	1,300
22	7,480	20,500	3,510	7,140	1,340	2,520	9,220	1,340	592	1,270	755	1,300
23	10,300	21,500	3,310	6,930	2,200	2,340	8,390	1,300	592	969	730	1,400
24	11,300	22,600	3,210	4,960	5,890	4,960	8,080	1,370	636	886	730	1,700
25	11,300	23,400	3,120	3,860	7,560	5,680	8,390	1,580	636	859	730	1,630
26	12,100	23,400	3,070	3,120	8,700	5,480	8,600	1,990	706	780	730	2,780
27	11,400	23,900	2,980	2,700	9,430	4,860	8,600	1,700	706	730	730	3,510
28	10,100	26,100	2,930	2,380	9,640	4,350	7,970	1,480	636	706	755	3,980
29	8,390	.....	2,750	2,200	7,970	4,250	6,720	1,370	614	706	780	3,980
30	5,890	.....	2,560	2,080	5,890	11,300	5,270	1,270	592	706	886	3,980
31	4,860	.....	2,480	.....	4,450	.....	4,060	1,140	.....	682	.....	2,980

NOTE.—These discharges were obtained from a rating curve which is well defined between 1,300 and 15,000 second-feet.

Daily discharge, in second-feet, of Tombigbee River at Epes, Ala., for 1911.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov	Dec.
1911												
1	2,840	4,420	10,400	8,200	34,100	2,290	4,320	3,400	3,040	770	895	3,130
2	21,300	4,320	12,000	6,900	31,600	2,040	3,850	3,490	2,500	710	895	3,220
3	26,200	4,220	14,400	5,740	28,700	1,880	3,400	3,580	2,160	710	895	3,310
4	27,300	4,060	15,900	4,980	24,800	1,760	3,490	4,320	1,840	710	895	3,130
5	27,700	3,850	16,800	9,120	19,400	1,680	2,420	4,510	1,680	710	895	2,960
6	27,900	3,720	17,000	20,000	13,900	1,570	1,920	4,700	1,680	655	960	2,800
7	28,400	5,460	15,500	23,600	9,950	1,530	1,680	4,510	1,380	655	1,030	2,160
8	29,300	4,700	11,000	25,900	8,000	1,490	1,600	4,130	1,530	655	1,530	2,000
9	29,900	10,100	8,400	27,800	6,800	1,420	1,680	3,580	1,530	655	3,400	1,920
10	29,900	14,000	7,200	29,500	6,220	1,420	1,680	3,130	1,380	655	2,240	1,840
11	28,800	15,300	6,800	31,500	5,650	1,420	1,600	3,400	1,380	710	2,000	2,160
12	23,400	17,500	6,220	33,600	4,980	1,420	1,600	3,580	1,530	710	2,330	8,000
13	16,000	19,200	5,740	34,200	4,320	1,280	1,680	3,310	1,600	710	2,860	14,800
14	10,500	20,300	5,180	35,900	3,900	1,200	3,310	2,270	1,600	710	2,500	22,300
15	7,800	20,900	4,800	36,700	3,580	1,200	9,640	2,240	1,600	710	2,330	26,500
16	6,500	20,900	4,220	36,900	3,310	1,140	11,700	2,080	1,530	770	2,160	30,000
17	5,840	20,200	4,080	36,900	3,040	1,060	12,500	2,950	1,530	1,240	2,160	30,900
18	5,080	18,600	3,850	36,400	2,860	1,060	7,600	3,940	1,400	1,310	2,160	30,900
19	4,420	16,300	3,670	35,100	2,680	1,060	5,650	5,270	1,380	1,240	2,330	30,200
20	4,040	14,100	3,540	33,200	2,540	1,060	4,600	5,460	1,240	1,170	2,240	30,400
21	3,760	12,100	3,400	31,200	2,420	1,100	3,940	5,840	1,100	1,380	2,080	31,600
22	3,580	11,300	3,540	30,000	2,300	1,140	3,490	6,320	960	1,680	2,160	33,800
23	3,400	10,700	4,040	29,800	3,130	1,200	3,400	5,840	960	1,680	2,730	36,400
24	3,310	9,960	4,040	30,500	4,320	1,380	9,220	5,740	895	1,530	2,240	37,100
25	3,440	8,600	4,080	31,900	4,320	1,720	12,200	5,360	895	1,380	2,000	37,300
26	3,440	7,200	3,850	33,100	4,510	2,770	12,100	4,980	895	1,170	1,840	37,500
27	3,310	6,500	3,800	34,200	4,600	3,360	11,100	4,420	830	1,100	1,760	37,700
28	3,180	6,410	4,180	35,600	4,220	4,270	10,200	3,580	830	1,030	4,420	37,300
29	3,360	.....	6,700	36,100	3,720	4,130	8,400	3,040	830	960	4,510	37,300
30	4,180	.....	8,500	35,400	2,950	4,320	6,220	3,130	770	960	3,400	37,500
31	4,510	.....	9,120	.....	2,590	.....	4,510	3,310	.....	895	.....	28,500
1912												
1	39,100	28,100	29,600	44,400	45,700	4,130	9,120	2,860	2,860	3,760	2,330	1,920
2	39,800	28,400	30,000	44,700	44,800	4,890	11,100	2,590	2,080	3,580	2,160	2,000
3	40,200	28,600	30,700	45,000	43,700	6,800	14,600	2,420	2,160	3,400	2,080	2,420
4	40,400	28,900	31,300	45,300	42,900	6,220	16,200	2,330	2,240	3,220	2,000	5,940
5	40,500	28,800	29,800	45,800	42,200	6,030	15,900	2,240	2,160	3,130	2,000	11,900
6	40,200	27,300	28,000	46,200	42,300	5,650	15,300	2,330	2,000	2,860	2,080	16,600
7	40,200	23,600	26,500	46,700	42,300	6,410	14,100	2,980	2,000	2,590	2,330	17,200
8	40,000	18,000	26,700	47,100	42,300	6,900	12,400	2,500	1,680	2,330	2,330	21,800
9	40,300	13,200	28,600	47,200	41,900	5,270	10,600	2,420	1,680	2,000	2,420	22,900
10	40,200	11,500	29,200	47,100	40,800	4,420	9,640	3,040	1,530	1,840	2,500	23,700
11	39,800	11,700	29,400	46,600	39,600	3,940	10,600	7,200	1,530	1,760	2,680	24,200
12	38,800	10,900	32,700	45,700	37,700	3,400	10,900	10,100	1,460	1,680	2,680	25,000
13	36,900	10,100	34,000	44,700	35,800	3,850	9,960	9,840	1,460	1,840	2,500	24,600
14	34,700	11,100	34,700	43,100	34,000	7,800	9,120	8,600	1,460	1,920	2,500	23,600
15	31,800	12,700	38,100	41,700	30,900	7,200	8,600	7,900	2,000	1,530	2,330	20,900
16	27,100	11,700	39,200	42,600	26,100	4,510	7,500	8,100	2,160	1,530	2,240	17,500
17	22,500	10,800	40,000	44,800	19,800	3,670	6,500	7,400	2,080	1,530	2,330	13,900
18	17,100	10,200	40,400	45,800	14,500	3,590	6,500	6,410	4,510	1,530	2,240	10,300
19	15,000	9,430	40,600	46,900	11,200	3,670	8,200	5,940	5,650	1,680	2,240	8,200
20	17,000	8,800	40,800	48,200	9,220	3,490	11,800	5,270	5,270	1,760	2,160	7,800
21	19,600	12,100	40,800	49,200	8,000	3,040	12,800	4,320	4,700	4,980	2,080	7,600
22	20,600	18,000	40,600	49,900	7,000	2,770	11,700	3,760	4,700	6,800	2,000	7,400
23	20,700	20,700	40,700	50,300	6,410	2,590	10,800	3,400	4,980	6,800	2,000	8,200
24	20,700	22,300	41,700	50,000	5,940	2,500	8,700	3,760	5,080	6,030	1,920	13,600
25	23,800	24,800	41,000	49,600	5,460	2,420	6,900	5,080	5,080	5,740	1,920	16,500
26	17,500	26,700	40,600	49,100	5,080	2,500	5,650	5,840	5,270	5,460	1,920	18,300
27	13,400	28,400	39,300	48,500	4,800	3,040	4,700	5,650	4,700	4,980	1,840	17,000
28	11,200	29,200	39,400	47,900	4,600	4,320	4,320	5,180	3,940	4,320	1,840	17,200
29	22,300	29,400	41,500	47,400	4,700	6,220	3,940	4,320	3,220	3,580	1,920	17,000
30	25,900	.....	43,500	46,700	4,890	8,300	3,400	3,760	2,860	2,950	1,920	18,600
31	27,500	.....	44,100	.....	4,510	.....	3,040	3,310	.....	2,500	.....	18,400

NOTE.—Daily discharge computed from a rating curve fairly well defined below 16,000 second-feet.

Daily discharge, in second-feet, of Tombigbee River at Epes, Ala.—Cont'd.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.
1913								
1	18,300	40,600	33,600	27,100	4,890	6,220	1,530	2,220
2	18,000	40,900	36,600	26,700	4,510	5,460	1,680	2,220
3	19,100	41,900	38,500	25,100	4,130	4,700	1,840	2,040
4	19,800	42,700	40,000	24,900	3,940	3,760	2,160	2,000
5	20,100	43,100	41,300	27,200	3,760	3,400	3,120	2,080
6	19,600	42,900	42,100	26,800	3,580	3,400	3,210	2,420
7	19,600	42,400	42,700	25,300	3,400	3,400	2,860	2,080
8	20,700	40,900	43,000	23,800	3,220	3,940	2,330	1,840
9	21,200	38,100	42,800	22,800	3,220	5,840	2,000	1,800
10	22,300	34,200	43,600	22,000	3,580	5,650	1,840	1,530
11	23,400	27,900	42,700	16,200	3,580	5,270	1,680	1,280
12	26,500	27,000	41,300	15,700	3,400	4,880	1,530	1,310
13	28,700	29,800	40,800	15,000	3,220	4,320	1,840	1,240
14	30,000	32,100	40,800	15,900	3,040	3,760	2,240	1,170
15	31,000	33,900	41,000	16,700	3,040	3,220	4,120	1,170
16	31,300	34,800	41,000	15,300	3,040	2,880	4,890	1,170
17	30,600	36,500	40,600	13,200	3,040	2,500	3,580	1,170
18	31,500	37,300	40,100	11,300	3,220	2,220	2,680	1;170
19	31,200	37,900	39,600	10,100	3,580	2,100	2,240	1,170
20	30,200	37,900	39,400	9,220	3,940	2,080	2,000	1,100
21	29,400	36,200	39,800	8,100	4,320	2,000	1,680	1,240
22	28,400	32,800	40,200	7,000	8,200	1,920	1,530	1,240
23	27,500	28,400	40,200	6,220	22,700	1,840	1,840	1,170
24	28,900	24,000	39,600	5,840	26,900	1,760	1,530	1,100
25	31,100	19,700	37,900	5,270	28,000	1,680	1,680	1,100
26	31,200	16,100	35,800	5,080	27,100	1,680	2,160	1,100
27	35,400	19,000	34,200	4,890	24,000	1,600	1,920	1,100
28	37,300	28,600	31,900	4,980	18,600	1,530	1,840	1,240
29	38,300	.....	29,800	5,080	13,700	1,530	2,320	1,240
30	39,000	.....	28,400	5,080	9,840	1,530	2,770	1,240
31	40,000	.....	27,500	.....	7,200	.....	2,500	1,100

NOTE.—Daily discharge determined from a rating curve fairly well defined by measurements made previous to 1912; because of the possibility of change in discharge relation estimates of daily discharge should be used with caution.

Estimated monthly discharge of Tombigbee River at Epes, Ala.

[Drainage area, 8,880 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-feet per square mile.	Depth in inches.
1905					
January	26,900	4,550	13,190	1.49	1.72
February	46,240	14,420	37,330	4.23	4.40
March	40,000	7,140	18,190	2.06	2.38
April	16,190	5,268	10,810	1.22	1.36
May	18,370	4,652	11,500	1.30	1.50
June	5,996	1,600	3,096	.351	.392
July	8,888	1,360	4,313	.488	.563
August	12,440	2,140	6,212	.704	.812
September	3,590	1,195	2,000	.226	.252
October	5,892	1,195	2,796	.317	.364
November	4,652	1,480	2,358	.267	.298
December	15,150	1,725	8,076	.915	1.05
The year	46,240	1,195	9,989	1.13	15.09
1906					
January	22,100	7,560	15,800	1.79	2.06
February	13,500	3,230	5,720	.648	.67
March	42,200	5,890	23,000	2.60	3.00
April	40,900	2,960	17,300	1.96	2.19
May	19,600	2,000	6,570	.744	.86
June	2,530	1,120	1,730	.196	.22
July	13,800	975	3,810	.432	.50
August	3,410	1,080	1,680	.190	.22
September	19,100	790	2,660	.301	.34
October	33,300	2,100	14,900	1.69	1.95
November	12,800	1,270	4,550	.515	.57
December	15,700	2,780	7,670	.869	1.00
The year	42,200	790	8,780	.995	13.53

Monthly discharge of Tombigbee River at Epes, Ala.—Continued.

[Drainage area, 8,830 square miles.]

Date.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-feet per square mile.	Depth in inches.
1907					
January	20,200	4,060	8,800	0.997	1.15
February	35,600	4,250	17,600	1.99	2.07
March	37,400	3,780	20,000	2.27	2.62
April	13,900	2,960	7,000	.793	.88
May	37,000	15,500	28,900	3.27	3.77
June	21,800	2,960	9,660	1.09	1.22
July	4,060	1,540	2,390	.271	.31
August	3,230	900	1,470	.166	.19
September	1,510	640	880	.100	.11
October	1,440	640	842	.095	.11
November	3,590	640	1,600	.181	.20
December	9,530	1,580	3,640	.412	.48
The year	37,400	640	8,570	.970	13.11
1908					
January	14,200	4,160	9,720	1.10	1.27
February	45,100	13,100	29,900	3.39	3.66
March	39,800	5,680	20,500	2.32	2.68
April	40,100	5,890	16,600	1.88	2.10
May	35,600	4,650	22,800	2.58	2.97
June	13,000	2,000	8,310	.941	1.05
July	5,270	1,640	2,960	.335	.39
August	13,400	1,780	5,220	.591	.68
September	2,250	750	1,120	.127	.14
October	990	640	776	.088	.10
November	1,220	640	867	.098	.11
December	16,600	1,440	7,780	.881	1.02
The year	45,100	640	10,500	1.19	16.17
1909					
January	10,500	3,360	6,510	0.737	0.85
February	41,000	2,610	22,600	2.56	2.67
March	50,500	32,600	43,100	4.88	5.63
April	44,200	8,390	22,500	2.55	2.84
May	44,600	4,250	20,900	2.37	2.73
June	45,400	15,600	34,100	3.86	4.31
July	17,500	2,340	7,050	.798	.92
August	4,650	886	2,070	.234	.27
September	1,120	780	873	.099	.11
October	1,270	550	757	.086	.10
November	1,270	682	865	.098	.11
December	4,650	997	2,280	.258	.30
The year	50,500	550	13,600	1.54	20.84
1910					
January	12,100	2,030	7,060	0.800	0.92
Febrary	26,100	2,890	10,200	1.16	1.21
March	26,300	2,480	8,850	1.00	1.15
Apri	3,080	2,080	3,740	.424	.47
May	9,640	941	2,900	.328	.38
June	16,300	1,700	6,660	.754	.84
July	29,600	4,060	16,400	1.86	2.14
August	5,480	1,140	2,750	.311	.36
September	1,370	592	841	.095	.11
October	2,030	550	926	.105	.12
November	886	682	775	.088	.10
December	3,960	886	2,010	.228	.26
The year	29,600	550	5,240	.593	8.06

Monthly discharge of Tombigbee River at Epes, Ala.—Continued.

[Drainage area, 8,830 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-feet per square mile.	Depth in inches.
1911					
January	29,900	2,840	13,000	1.47	1.70
February	20,900	3,720	11,200	1.27	1.32
March	17,000	3,400	7,510	.851	.98
April	36,900	4,980	28,000	3.17	3.54
May	34,100	2,420	8,370	.948	1.09
June	4,320	1,060	1,810	.205	.23
July	12,500	1,600	5,510	.624	.72
August	6,320	2,080	4,060	.460	.53
September	3,040	770	1,420	.161	.18
October	1,680	655	965	.109	.13
November	4,510	895	2,110	.239	.27
December	38,500	1,840	21,100	2.39	2.76
The year	38,500	655	8,740	.990	13.45
1912					
January	40,500	11,200	29,200	3.31	3.82
February	29,400	8,800	19,200	2.17	2.34
March	44,100	26,500	35,900	4.07	4.69
April	50,300	41,700	46,600	5.28	5.89
May	45,700	4,510	24,200	2.74	3.16
June	8,300	2,420	4,650	.527	.59
July	16,200	3,040	9,500	1.08	1.24
August	10,100	2,240	4,860	.550	.63
September	5,650	1,460	3,080	.349	.39
October	6,800	1,530	3,210	.364	.42
November	2,680	1,840	2,180	.247	.28
December	25,000	1,920	14,900	1.69	1.95
The year	50,300	1,460	16,500	1.87	25.40
1913					
January	40,000	18,000	27,700	3.14	3.62
February	43,100	16,100	33,800	3.83	3.99
March	43,600	27,500	38,600	4.37	5.04
April	27,200	4,890	15,000	1.70	1.90
May	28,000	3,040	8,450	.957	1.10
June	6,220	1,530	3,210	.364	.41
July	4,890	1,530	2,300	.260	.30
August	3,040	1,100	1,540	.174	.20

BLACK WARRIOR RIVER NEAR CORDOVA, ALA.

Location.—At the Kansas City, Memphis & Birmingham Railroad bridge, 1 mile east of Cordova and just below the mouth of Cane Creek, 12 miles below junction of Mulberry and Sipsey forks, and 6 miles below the mouth of Blackwater Creek.

Records available.—May 21, 1900, to December 31, 1912.

Drainage area.—1,900 square miles.

Gage.—Staff gage in three sections, the lower one being a sloping timber bolted to bedrock, graduated from —0.6 to 10.0 feet; the other two sections are vertical timbers. All the sections are on the right bank near the railroad bridge. The datum of the gage has not been changed, but several gages at slightly different sites have been used.

Channel.—The bed is rocky with a fair current except at low stages; at high stages the left bank overflows under the bridge.

Discharge measurements.—Made from the railroad bridge. Some of the low-water measurements have been made by wading or from a boat at other sections near by.

Accuracy.—The minimum flow is especially low per square mile of drainage area, and the rating at this stage is subject to considerable change.

Cooperation.—Gage heights furnished by the United States Engineer Corps.

Discharge measurements of Black Warrior River near Cordova, Ala.

Date.	Gage height. Feet.	Discharge. Sec.-feet.
1900		
May 21	0.10	747
1901		
January 8	1.30	1,781
February 18	2.40	2,863
March 12	9.45	13,279
April 17	1.70	2,024
June 20	.00	644
October 26	— .40	385
1902		
January 17	.80	1,384
April 4	5.80	7,162
September 22	— 1.10	74
October 14	.60	834
1903		
March 6	13.90	1,9250
March 13	6.90	9,486
May 19	4.34	5,159
June 15	.50	1,036
July 17	— .30	306
August 27	— .48	208
August 29	— .65	142
September 25	— .90	78
1904		
January 16	— .40	216
February 24	.28	785
March 23	2.65	3,086
May 25	— .50	171
August 10	.49	1,011
October 26	— 1.00	25
October 26	— 1.00	24
1905		
January 25	1.90	2,389
January 27	1.25	1,516
February 14	8.75	10,350
February 14	8.65	10,330
February 18	4.70	5,700
June 14	— .27	389
August 9	— .46	252
September 27	— .26	336
1906		
April 20	1.05	1,440
April 27	0.71	1,080
June 22	— 0.28	333
June 23	— 0.33	264
1908		
October 2	— 0.9	95
December 26	3.7	3,760
1911		
November 10	— 0.25	446
November 10	— 0.25	444

Daily gage height, in feet, of Black Warrior River near Cordova, Ala.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1900.												
1						0.6	8.1	0.9	0.5	−0.8	−0.1	1.4
2						2.8	5.2	.5	.2	− .8	+ .8	1.0
3						5.3	7.1	.4	.1	− .9	.8	.8
4						7.1	6.5	.2	.0	− .9	.4	1.0
5						7.5	5.3	.1	− .1	−1.0	.3	1.9
6						7.6	4.6	.0	− .2	−1.0	.3	1.8
7						6.5	3.5	.1	− .3	−1.1	.2	1.4
8						7.3	2.1	.2	− .4	+ .2	.2	1.2
9						6.5	2.5	.3	− .5	.9	.1	1.0
10						4.5	2.7	.3	− .5	.9	.0	.9
11						3.2	1.0	.4	− .6	.1	− .1	.7
12						2.0	.8	.5	− .6	9.4	− .2	.7
13						4.6	1.0	.5	− .7	9.2	− .2	.8
14						8.6	.8	.5	− .6	2.2	− .3	.8
15						9.8	.5	.6	1.5	2.3	− .3	.8
16						8.0	.4	.6	.9	1.7	− .3	.6
17						8.2	.4	.6	.5	1.0	− .4	.8
18						7.2	.3	.6	.1	.6	+ .3	.4
19						12.4	.3	.1	.0	.3	.2	.4
20						10.0	.2	.0	− .1	.2	.1	.5
21					0.1	6.1	.7	.2	− .2	.1	.3	1.5
22					.1	4.8	1.0	.3	− .3	.0	1.1	3.0
23					.1	12.2	.8	.4	− .3	1.0	.8	2.9
24					1.5	22.9	.5	.8	− .4	.7	.8	5.0
25					1.5	23.8	.9	1.7	− .4	.5	.9	4.0
26					1.0	21.3	.6	.8	− .5	.3	5.1	3.1
27					.6	22.1	1.6	.2	− .5	.2	4.9	2.5
28					.7	22.9	2.4	.0	− .6	.1	3.6	2.1
29					.8	22.4	1.3	.1	− .7	.0	2.8	1.8
30					.9	16.5	1.2	.9	− .7	− .1	1.9	1.7
31					.9		1.5	1.0		− .1		2.8
1901.												
1	3.7	4.0	1.0	5.4	1.7	1.6	+ .1	− .6	.7	1.2	− .4	− .2
2	3.1	3.6	1.6	9.2	1.5	4.5	.3	− .6	.5	.8	− .5	− .2
3	2.8	4.5	2.2	14.5	1.3	2.8	.1	− .65	.4	.5	− .5	− .1
4	2.5	17.6	1.9	16.9	1.1	2.1	.0	− .65	.2	.4	− .4	.0
5	2.3	18.0	1.6	7.0	1.0	2.0	− .2	− .7	.1	.3	− .4	.1
6	2.0	9.1	1.5	5.8	.8	2.6	− .2	− .7	.0	.2	− .4	.1
7	1.7	5.6	1.6	4.9	.7	2.7	− .3	− .7	− .1	.1	− .3	.1
8	1.5	5.2	1.3	4.2	.6	2.0	− .3	− .65	− .2	.0	− .3	.1
9	1.3	7.1	1.5	3.5	.5	1.5	− .4	− .6	− .3	− .1	− .4	.1
10	2.6	8.1	17.5	2.8	.4	1.1	− .5	− .6	− .4	− .2	− .4	.7
11	19.9	6.2	20.5	2.3	.3	2.2	− .6	− .6	− .5	− .2	− .4	1.2
12	22.5	5.4	10.8	2.1	.4	1.5	− .6	− .3	− .3	− .2	− .3	1.0
13	20.85	4.8	6.2	1.8	.6	1.1	− .6	+ .4	− .3	.0	− .3	.8
14	17.85	4.2	5.3	2.5	2.1	1.0	− .7	.1	+ .5	+1.1	− .3	6.2
15	9.25	3.8	4.2	2.8	1.8	.9	− .7	.2	.7	.6	− .3	2.4
16	6.8	3.3	3.5	2.3	1.3	.7	− .7	5.0	.5	.3	− .4	1.52
17	5.5	2.9	2.8	1.8	.9	.6	− .6	12.1	3.8	.1	− .4	8.1
18	4.3	2.6	2.2	2.2	.7	.5	.0	6.8	5.0	.0	− .4	5.3
19	3.8	2.2	1.9	9.4	.9	.3	+1.1	10.8	3.5	− .1	− .2	3.5
20	3.1	2.0	2.4	16.1	1.8	.2	2.8	8.7	1.8	− .2	.0	2.6
21	2.8	1.8	5.0	11.6	5.8	.0	1.6	8.5	1.1	− .2	− .1	2.9
22	2.6	1.6	4.2	6.6	7.3	− .1	.6	11.2	.8	− .3	− .1	1.5
23	2.4	1.3	3.5	5.4	5.5	− .2	.0	7.3	.5	− .3	.0	1.5
24	2.6	1.4	3.5	4.5	3.6	− .3	− .2	5.2	.4	− .4	− .1	2.0
25	3.4	1.2	4.95	3.6	2.8	− .3	− .3	4.0	.3	− .4	− .2	2.5
26	5.0	1.2	11.2	3.0	2.1	− .3	− .4	2.8	.2	− .4	− .2	2.1
27	3.8	1.1	6.9	2.6	1.6	− .4	− .5	2.0	.1	− .4	− .1	2.6
28	4.2	1.0	5.3	2.2	1.3	− .4	− .5	1.5	.1	− .4	− 1	5.0
29	3.5	.....	4.6	2.0	1.1	− .4	− .5	1.4	1.0	− 5	− .2	18.5
30	3.6	.....	4.0	1.9	1.0	− .5	− .55	1.2	2.3	− .5	− 2	22.0
31	4.2	.....	6.2	.....	1.9	.....	− .6	1.0	.....	− 5	.....	13.5
1902												
1	8.8	14.6	22.6	13.1	0.8	−0.6	−0.9	−1.0	−0.8	−0.4	−0.8	9.7
2	6.5	12.1	16.0	9.2	.6	− .7	− .9	−1.0	− .8	− 2	− .8	2.8
3	5.0	15.4	8.6	6.5	.5	− .7	− .9	.0	− .7	− 1	− .8	2.2
4	4.2	10.5	6.5	5.7	.3	− .7	− .9	− .1	− .6	− 4	− .8	7.0
5	3.7	8.0	8.8	5.4	.2	− .7	− .9	− .1	− .7	− 6	− .8	2.8
6	3.0	6.2	11.5	4.3	.1	− .7	− .9	− .3	− .8	− 6	− .7	3.8
7	2.6	5.2	8.4	5.75	.0	− .7	−1.0	− .5	− .9	− .7	− .6	3.2
8	2.4	4.4	6.7	8.9	.0	− .8	−1.0	− .8	−1.0	− 7	− 4	2.4
9	2.2	3.8	6.1	8.1	− .1	− .8	−1.0	−1.0	−1.0	− 7	− 4	1.8
10	2.0	3.3	5.7	6.4	.1	− .8	−1.0	−1.0	−1.1	− 7	− .5	1.3
11	1.8	2.8	4.9	5.0	.0	− .8	−1.0	−1.1	−1.1	+ .6	− .6	1.0
12	1.6	2.5	4.3	4.2	− .1	− .8	−1.1	−1.1	−1.1	2.9	− .7	.8
13	1.4	2.3	4.1	3.8	− .2	− .8	−1.1	−1.1	−1.1	1.4	− .7	.7
14	1.2	2.2	3.8	3.5	− .2	− .8	−1.1	−1.1	−1.1	.6	− .7	.6
15	1.1	5.3	3.5	3.2	− .2	− .9	−1.1	−1.1	−1.1	.6	− .7	5.5
16	1.0	7.5	3.8	2.8	.1	− .9	−1.1	−1.1	−1.1	.2	− .7	6.5
17	1.0	5.5	7.1	2.3	.2	− .9	−1.1	−1.1	−1.1	.2	− .7	11.2
18	.9	4.7	5.3	2.0	.5	− .9	−1.1	−1.1	−1.1	− 3	− .5	6.3
19	1.7	4.2	4.1	1.7	.3	− .9	−1.1	−1.1	−1.1	− .4	− .5	4.4
20	3.0	3.7	3.8	1.6	.3	− .9	−1.0	−1.1	−1.1	− .6	− .5	2.2
21	2.5	3.4	3.6	1.4	.0	− .4	−1.0	−1.1	−1.1	− .6	− .5	2.7
22	6.7	3.3	3.6	1.2	− .2	− .2	− .9	−1.0	−1.1	− .6	− .5	5.8
23	6.0	3.0	3.1	1.1	− .3	− .6	− .9	−1.0	−1.1	− .6	− .5	4.4
24	4.8	2.7	2.7	1.0	− .4	− .7	− .9	−1.0	−1.1	− .7	− .5	3.5
25	4.3	3.2	3.5	.9	− .5	− .7	− .9	−1.0	−1.1	− .8	− .2	2.7
26	3.9	4.0	3.3	.8	− .5	− .7	−1.0	−1.1	−1.0	− .8	8.0	2.4
27	5.0	4.0	3.1	.7	− .5	− .8	−1.0	−1.1	−1.0	− .8	3.4	1.8
28	12.0	22.7	25.0	.6	− .5	− .8	−1.0	− .9	−1.1	− .8	1.5	1.6
29	10.8	.....	23.5	.5	− .6	− .8	−1.0	− .7	−1.1	− .8	.8	2.4
30	8.3	.....	20.0	1.0	− .6	− .8	−1.0	− .6	− .8	− .8	.6	2.5
31	11.0	.....	21.8	.....	− .7	.....	−1.0	− .7	.....	− .8	.....	2.7

Mean daily gage height, in feet, of Black Warrior River near Cordova, Ala.—Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1903												
1	2.30	2.30	27.60	3.70	0.80	2.80	—0.10	0.00	—0.70	—0.90	—0.40	—0.50
2	2.40	3.40	21.60	3.30	.70	3.80	— .20	.00	— .70	— .90	— .40	— .50
3	7.80	3.30	13.50	2.70	.70	2.50	— .20	.50	— .70	— .90	— .40	— .60
4	8.20	9.00	7.20	2.30	.70	1.60	— .30	.30	— .70	— .90	— .40	— .60
5	6.00	15.80	6.20	2.30	.70	1.80	.00	.10	— .70	— .90	— .40	— .60
6	4.90	10.00	13.70	2.30	.60	4.70	— .10	— .10	— .70	— .90	— .50	— .60
7	3.80	8.70	11.40	1.90	.60	3.80	— .20	— .20	— .70	— .90	— .50	— .60
8	3.00	26.10	10.10	2.00	.50	2.60	.00	— .20	— .70	— .50	— .60	— .60
9	2.60	25.40	15.70	10.00	.50	2.00	— .10	— .20	— .80	— .40	— .60	— .60
10	2.40	16.10	11.90	5.40	.50	2.40	— .20	— .30	— .80	— .30	— .60	— .60
11	3.90	21.20	10.20	4.00	.50	2.00	.00	— .30	— .80	— .30	— .60	— .60
12	10.00	25.30	8.20	3.40	.50	2.00	— .10	— .30	— .80	— .30	— .40	— .60
13	7.80	18.00	6.70	5.50	.80	1.40	— .10	— .30	— .80	— .40	— .40	— .60
14	5.60	9.00	8.60	12.20	6.60	.90	— .20	— .40	— .80	— .50	— .50	— .60
15	4.50	11.10	8.60	8.00	20.10	.60	— .30	— .40	— .80	— .60	— .60	— .50
16	3.60	14.30	6.90	5.80	19.40	.50	— .30	— .30	— .80	— .60	— .60	— .50
17	2.50	29.50	5.90	4.60	11.20	.30	— .30	— .30	— .80	— .70	— .60	— .50
18	2.30	27.30	5.30	3.90	6.30	.20	— .40	— .40	— .90	— .70	— .60	— .50
19	2.40	17.30	4.50	2.90	4.90	.10	— .40	— .40	— .90	— .70	— .60	— .50
20	1.80	10.50	4.00	3.20	3.80	.00	— .40	— .50	— .90	— .70	— .50	— .50
21	1.70	7.90	3.40	6.80	2.80	.00	— .40	— .50	— .90	— .70	— .50	— .20
22	1.80	5.40	3.00	4.50	2.40	.00	— .50	— .60	— .90	— .70	— .50	.50
23	1.60	5.00	3.00	3.40	1.80	.20	— .50	— .60	— .90	— .70	— .50	.10
24	1.40	4.50	2.90	3.00	1.50	.70	— .50	— .60	— .90	— .70	— .50	.10
25	1.40	3.70	2.70	2.60	1.30	.50	— .50	— .60	— .90	— .70	— .50	— .30
26	1.40	3.30	2.30	2.00	1.00	.40	— .50	— .60	— .90	— .70	— .50	— .40
27	1.30	3.00	2.00	1.70	.80	.30	— .60	— .60	— .90	— .70	— .50	— .30
28	1.90	21.90	1.80	1.50	.60	.20	— .60	— .60	— .90	— .70	— .50	— .30
29	3.50	.....	1.70	1.40	.50	.20	— .60	— .70	— .90	— .80	— .50	— .40
30	3.40	.....	2.30	1.00	.40	.10	— .60	— .70	— .90	— .80	— .50	— .40
31	2.80	.....	2.90	.....	.80	.....	— .20	— .70	.....	— .50	.....	— .40
1904												
1	—0.4	—0.1	0.0	2.6	—0.5	1.2	1.8	—0.5	—0.8	—1.0	—0.9	0.8
2	— .4	.0	.0	2.4	— .5	.4	.2	— .3	— .8	—1.0	— .9	.9
3	— .5	.1	.0	3.2	— .5	— .1	— .3	.6	— .8	—1.0	— .9	1.3
4	— .5	.0	.0	3.1	— .4	— .6	— .1	.4	— .5	—1.0	— .8	2.2
5	— .5	— .1	.0	2.8	— .4	— .4	— .3	.4	— .5	—1.0	.1	3.8
6	— .5	— .1	.0	2.4	— .5	— .3	— .3	.6	— .6	—1.0	— .3	5.5
7	— .5	— .1	3.2	3.7	— .5	— .2	.2	.6	— .7	—1.0	— .3	2.7
8	— .4	.3	5.4	5.2	.3	— .1	— .1	1.2	— .8	—1.0	— .4	1.3
9	— .4	.1	3.5	7.2	.4	— .3	— .3	1.0	— .8	—1.0	— .4	1.1
10	— .5	.4	2.3	4.3	.6	— .4	— .4	.9	— .8	—1.0	— .5	1.2
11	— .5	.7	2.0	4.0	.5	— .5	— .2	1.1	— .8	— .9	— .5	.9
12	— .5	.6	2.0	3.2	.4	— .5	.3	1.1	— .8	— .9	— .5	.7
13	— .5	.4	2.4	2.5	.2	— .5	2.7	1.2	— .8	— .9	— .5	.4
14	— .5	.4	5.5	2.1	.0	— .5	.6	.8	— .8	— .9	— .5	.2
15	— .5	.3	6.3	1.6	— .1	— .5	— .1	.3	— .8	— .9	— .5	.1
16	— .5	.2	4.5	1.5	— .2	— .5	— .4	.1	— .8	— .9	— .6	.0
17	— .3	.1	3.2	1.2	— .2	— .6	— .3	.1	— .8	— .9	— .6	— .1
18	— .3	.1	2.5	1.1	— .3	— .6	— .5	.0	— .8	— .9	— .6	— .1
19	— .2	.0	2.2	1.0	— .4	— .6	— .3	— .1	— .9	— .9	— .6	.0
20	— .2	.0	1.4	1.0	— .5	— .6	— .5	— .2	— .9	— .9	— .6	.0
21	— .2	.3	.5	1.0	— .6	— .7	— .4	— .2	— .9	— .9	— .6	— .1
22	1.3	.3	.3	1.1	— .6	— .7	— .4	— .3	— .9	— .9	— .6	— .1
23	2.9	.4	.3	1.5	— .6	— .8	— .5	— .4	— .9	— .9	— .1	— .2
24	2.0	.3	5.5	1.4	— .6	— .8	— .4	— .5	— .9	— .9	.1	— .2
25	1.6	.3	5.5	— .1	— .6	— .5	— .3	— .6	— .9	— .9	.1	— .2
26	.6	.2	4.1	— .1	— .6	— .5	— .3	— .7	— .9	— .9	.0	.0
27	.3	.1	6.5	— .1	— .6	— .5	— .4	— .7	— .9	— .9	.0	.2
28	.1	.1	8.6	— .2	— .6	— .5	— .5	— .7	— .9	— .9	— .1	12.4
29	.1	.0	5.7	— .4	— .6	— .4	— .5	— .7	—1.0	— .9	— .1	6.5
30	.0	.....	4.3	— .5	— .6	2.6	— .5	— .8	—1.0	— .9	— .1	3.3
31	.0	.....	2.8	.....	1.3	.....	— .5	— .8	.....	— .9	.....	2.4

Daily gage height, in feet, of Black Warrior River near Cordova, Ala.—Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June.	July	Aug.	Sept.	Oct.	Nov.	Dec.
1905												
1	1.7	4.2	3.5	1.3	5.3	1.1	2.4	+0.2	0.8	—0.4	0.6	0.5
2	1.5	3.6	3.1	1.2	4.0	.8	2.0	.0	1.8	— .45	.5	.4
3	1.3	3.1	2.7	1.1	3.2	.6	1.8	— .1	7.0	— .6	.4	1.2
4	.9	2.7	2.5	1.0	2.7	.4	1.5	— .2	3.2	— .55	.4	2.7
5	.3	2.9	2.2	1.2	2.3	.3	1.2	— .3	4.0	— .5	.4	2.7
6	.4	14.3	2.0	1.3	1.9	.1	1.0	— .4	2.3	— .15	.4	2.0
7	1.5	14.2	1.9	1.4	3.3	.1	.8	— .4	2.6	.0	.4	1.5
8	1.6	13.9	1.8	1.3	7.7	.0	.6	— .5	1.0	— .15	.3	1.4
9	1.3	28.9	2.2	1.1	5.3	.0	.4	— .5	.9	— .3	.3	2.7
10	1.6	30.0	16.4	1.0	3.9	.0	.2	— .4	.6	— .45	.4	2.8
11	3.5	20.0	10.0	.9	3.1	.0	1.3	— .2	.5	.6	1.5	2.4
12	14.9	12.0	6.8	.8	2.4	— .1	.7	2.5	.5	3.6	1.5	2.0
13	19.3	10.0	5.2	.8	2.9	— .2	.5	1.0	1.0	1.9	1.3	1.9
14	12.9	8.8	4.2	.8	2.6	— .3	.3	1.7	1.5	.0	1.0	1.6
15	6.4	7.0	3.4	.8	1.8	— .3	.1	1.1	1.0	.6	.9	2.4
16	6.0	6.8	2.9	.9	2.3	.0	— .3	1.8	.5	1.2	.7	7.0
17	4.4	5.0	2.5	1.0	2.5	.0	— .3	2.3	.3	2.3	.6	6.8
18	3.2	4.8	2.3	.9	1.8	.0	— .4	3.0	.0	1.5	.5	5.5
19	2.5	4.3	2.1	.7	1.3	.0	— .5	1.6	.0	1.1	.4	3.7
20	2.7	6.3	2.4	.6	1.0	.0	— .6	3.6	.0	.8	.5	3.2
21	3.3	26.5	4.6	.6	1.0	.0	— .7	2.6	.1	.6	.5	5.7
22	2.9	22.8	5.5	1.1	2.2	.0	— .8	1.6	.5	.4	.4	7.3
23	2.3	13.2	4.5	1.3	3.7	.0	— .8	1.1	.3	.4	.5	6.6
24	2.1	9.1	3.3	1.0	3.9	.1	— .8	1.0	.0	.4	.6	7.4
25	2.0	6.9	3.3	.8	3.9	.1	+ .4	2.5	— .1	.7	.6	6.3
26	1.6	5.5	2.9	1.5	3.0	.1	+ .9	7.5	— .3	1.0	.3	5.7
27	1.3	4.6	2.5	3.6	9.5	.2	+ .6	4.0	— .3	1.3	.3	4.2
28	1.2	4.0	2.2	3.5	4.1	.3	+ .2	2.0	— .35	.7	.3	3.7
29	1.2	.....	2.0	2.5	2.5	3.3	— .2	1.3	— .35	.7	.3	4.6
30	3.6	.....	1.8	4.3	1.9	3.3	.0	1.0	— .35	.7	.5	4.0
31	5.1	.....	1.5	.....	1.4	.....	.4	1.0	.....	.7	.....	4.4
1906												
1	3.4	2.7	1.9	14.2	0.4	1.1	— .6	0.6	0.1	13.0	0.1	0.6
2	3.0	2.4	1.6	9.3	.45	.3	— .6	.45	1.1	17.0	.0	.6
3	6.9	2.1	3.0	7.2	.4	.65	— .6	.2	1.0	12.0	.0	.55
4	14.0	1.85	14.6	5.6	.3	.9	— .65	.1	.9	9.4	.0	.5
5	11.0	1.6	8.7	4.3	2.4	1.1	— .65	.1	1.1	6.1	.05	.4
6	6.8	1.5	6.8	3.8	2.2	.9	— .65	.0	1.0	3.6	.05	.6
7	5.3	1.4	5.7	3.4	2.0	.7	— .65	.0	1.0	13.9	.05	.9
8	4.6	1.3	4.4	3.1	1.6	.5	— .6	.1	.9	9.5	.05	.7
9	4.6	1.2	3.8	2.9	1.1	.4	— .6	— .1	.8	6.4	.1	.6
10	4.3	1.15	3.3	2.85	.8	.4	— .5	— .1	.6	3.8	.1	.7
11	4.0	1.0	2.6	2.8	.5	.35	— .4	— .2	.4	2.9	.05	1.5
12	4.6	.9	2.15	2.5	.3	.3	— .5	3.1	.3	2.2	.05	1.5
13	5.6	.9	2.1	2.3	.3	.2	— .6	3.4	.2	1.0	.05	1.4
14	4.8	1.0	2.0	2.1	.25	.15	+5.7	3.6	.5	1.2	.0	1.3
15	4.6	1.05	22.0	2.1	.2	.2	6.6	3.9	.4	1.0	.02	1.2
16	3.8	1.0	24.0	1.9	.1	.0	4.6	2.8	.0	.8	.05	1.1
17	3.2	1.0	14.3	1.8	.0	.4	2.6	1.7	— .2	.7	.05	1.0
18	3.0	.85	8.5	1.65	.0	.2	2.3	1.1	— .3	.9	.5	1.8
19	2.8	.7	15.5	1.4	— .05	.1	2.7	.9	.0	3.8	3.4	1.5
20	2.65	.6	22.7	1.2	— .1	.0	3.6	.6	+ .1	3.2	7.2	2.7
21	2.9	1.3	15.2	1.0	.0	— .25	3.2	.4	.3	2.1	4.7	2.3
22	18.5	2.0	8.0	1.2	+ .2	— .3	2.0	.2	.4	1.5	3.2	2.0
23	34.2	2.0	7.6	1.5	.4	— .4	1.6	.1	1.8	1.2	2.8	1.7
24	27.9	1.9	6.0	1.2	.5	— .4	3.2	.1	1.2	1.0	2.0	1.5
25	14.6	4.1	5.2	1.0	.3	— .55	2.3	.0	.7	.7	1.5	1.2
26	9.4	3.2	4.0	0.85	4.2	— .5	1.5	— .1	.6	.5	1.2	1.0
27	6.2	2.5	5.6	.7	3.9	— .4	1.0	— .1	.9	.3	1.1	.9
28	5.1	2.6	24.5	.5	3.1	— .5	.6	.9	1.2	.3	1.0	1.7
29	4.2	.....	19.5	.5	2.6	— .6	.6	2.1	17.0	.3	.9	2.6
30	3.6	.....	21.1	.45	2.2	— .5	1.5	1.0	20.5	.2	.7	3.1
31	3.0	.....	21.5	.....	1.7	.....	1.1	.4	.....	.2	.....	14.5

Daily gage height, in feet, of Black Warrior River near Cordova, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1907.												
1	14.5	2.9	9.3	0.7	4.0	7.2	0.1	−0.35	−0.75	−0.3	−0.7	0.45
2	8.8	19.5	19.3	.65	2.8	5.8	.1	− .4	− .75	− .4	− .65	.3
3	6.3	15.2	21.3	.6	2.2	4.2	1.7	− .35	− .8	− .4	− .65	.2
4	5.2	12.5	13.2	.6	2.6	3.4	1.0	− .45	− .85	− .4	− .55	.1
5	4.4	8.1	9.4	.55	2.4	2.6	.5	− .55	− .7	− .1	− .45	.0
6	3.8	5.8	6.5	1.5	3.1	2.1	.2	− .6	− .3	.8	− .35	− .1
7	3.1	4.0	5.4	1.8	5.6	1.6	.1	− .65	− .9	.4	− .3	− .2
8	2.5	3.2	4.3	2.1	9.9	1.2	.0	− .7	− .9	.45	− .3	− .2
9	2.0	2.4	3.6	1.7	10.9	1.1	− .2	− .7	− .9	.45	− .3	− .1
10	2.2	2.4	3.2	1.4	8.1	1.0	− .25	− .55	.6	.4	− .3	1.3
11	2.1	2.5	2.8	1.2	9.4	.9	− .3	− .65	.6	.2	− .25	1.9
12	2.0	2.6	2.45	1.0	9.6	.8	− .35	− .7	.75	.0	− .25	1.5
13	1.8	2.4	2.0	.8	6.0	.7	1.3	− .75	.9	− .3	− .2	1.0
14	1.6	2.2	1.7	.6	4.5	.6	2.0	− .7	.0	− .4	− .2	1.3
15	1.5	1.9	3.0	.5	12.6	.5	1.7	− .65	− .3	− .5	− .25	1.75
16	1.4	1.7	3.7	.45	15.1	.5	1.0	.0	− .4	− .55	− .25	1.75
17	1.4	1.5	3.2	1.4	8.8	.5	.5	− .2	− .4	− .55	− .25	1.3
18	1.4	1.4	2.8	1.3	5.8	.4	.3	− .3	− .4	− .55	− .2	1.05
19	1.4	1.4	2.3	1.2	4.4	.2	.2	− .4	− .5	− .6	.0	1.0
20	1.3	1.5	2.0	1.05	3.5	.1	.1	− .5	− .6	− .6	.1	.8
21	1.6	1.4	1.8	1.0	2.6	.1	.1	− .6	− .7	− .6	.5	.6
22	2.4	1.2	1.6	1.0	2.1	.1	.4	− .65	− .75	− .65	1.05	.5
23	1.8	1.0	1.4	1.3	1.8	.05	.25	− .7	.6	− .65	1.45	1.6
24	1.7	.9	1.3	2.0	1.6	.2	.1	− .75	.9	− .65	2.45	4.0
25	1.6	7.8	1.2	1.7	1.1	1.6	.0	− .85	.2	− .65	1.8	3.0
26	1.5	8.7	1.0	1.4	.9	1.1	− .2	− .9	.0	− .7	1.3	2.0
27	1.4	9.9	.85	1.2	3.4	.8	− .3	− .9	.0	− .7	.9	1.55
28	1.3	7.5	.8	1.2	3.0	.5	− .4	− .95	.1	− .65	.6	1.3
29	1.2	.....	.8	2.5	2.4	.3	− .3	−1.0	− .1	− .7	.5	1.9
30	1.1	.....	.7	2.8	2.0	.2	− .25	− .8	− .2	− .7	.55	2.1
31	1.2	.....	.7	.....	2.9	.....	− .3	− .7	.....	− .7	.....	3.9
1908.												
1	3.7	5.0	3.7	3.3	2.0	2.7	− .3	.2	− .6	− .9	− .9	− .4
2	2.9	9.0	3.1	2.75	1.6	1.85	− .4	− .3	− .7	− .9	− .9	− .0
3	2.05	5.7	3.6	2.3	1.3	1.55	− .45	− .1	− .7	− .9	− .4	− .1
4	2.4	4.7	16.5	1.95	1.0	1.85	− .2	− .2	− .75	− .9	− .2	− .2
5	4.1	3.7	12.8	1.75	2.35	2.7	.0	− .25	− .65	− .9	− .2	− .3
6	7.0	4.6	9.2	4.2	19.4	3.1	.2	− .3	− .55	− 9	− .3	− .2
7	5.2	4.4	7.3	8.6	21.5	2.1	.1	− 4	− .65	− 9	− 5	17.0
8	3.9	3.7	5.8	5.8	13.3	1.65	.0	− .45	− .7	− 9	− 6	17.5
9	3.3	3.0	4.4	3.5	7.5	1.2	1.1	− .2	− .75	− .8	− .65	6.0
10	2.85	5.3	3.75	2.8	4.9	.85	.6	− .3	− .8	− .8	− 65	2.3
11	2.2	12.3	3.1	2.0	3.9	1.0	.2	− .35	− .85	− 7	− .65	1.8
12	6.7	9.8	3.9	1.75	2.9	1.0	.05	− .4	− .9	− .7	− 7	1.5
13	6.7	8.6	3.55	1.5	2.45	.9	.05	− .45	− .9	− 7	− 7	1.0
14	5.6	14.0	3.0	1.3	1.9	7	− 1	− .5	− 9	− .75	− .7	8
15	4.1	22.8	2.75	1.2	1.8	1.6	− .2	− .55	− .9	− 75	− 7	7
16	3.3	24.3	2.6	2.3	6.5	2.15	− .3	− .6	− 9	− 75	− .7	.6
17	3.7	16.5	2.4	2.6	6.4	1.5	− .2	− 7	− .95	− .8	− 7	.5
18	3.4	9.2	2.15	2.0	6.0	.85	− .3	− .5	− .95	− .8	− 7	.4
19	3.1	12.5	1.9	1.8	10.1	.55	− 15	− .6	− 95	− .8	− 7	.4
20	2.7	16.2	2.6	2.0	8.8	3	.0	− .7	− .95	− .8	− 7	.3
21	2.35	9.2	12.0	2.5	5.8	.0	.85	− .8	− .95	− .8	− 7	.3
22	2.2	7.0	8.5	2.15	4.4	− 1	.5	− .4	− .95	− .8	− 7	6.1
23	2.05	6.0	12.0	1.85	3.05	− 1	2	2	− 95	− .85	− 75	13.2
24	1.9	5.0	26.8	1.5	2.7	3	1	.8	− .95	− .85	− .75	8.6
25	1.65	4.0	24.5	4.2	1.75	5	.0	.3	−1.0	− .85	− 7	5.2
26	1.4	4.9	16.8	6.0	85	3	3	5	−1.0	− 85	− 4	4.1
27	1.35	5.8	9.4	4.8	4.2	.0	5	1.0	−1.0	− 85	− 1	2.9
28	1.3	5.0	6.8	3.5	4.3	− 1	4	3	−1.0	− .85	− 2	2.1
29	1.15	4.2	5.6	2.45	2.2	− 15	2	− 3	− 9	− 85	− 3	1.8
30	1.0	.....	4.8	2.15	3.8	− 2	.0	− 1	− 9	− .85	− 14	1.5
31	1.0	.....	4.0	.....	5.1	.. . .	− .1	− 5	. .....	− .85	.. ...	1.3

Daily gage height, in feet, of Black Warrior River near Cordova, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1909												
1	1.1	0.85	6.2	2.5	7.9	1.8	3.8	2.0	−0.35	−0.6	−0.7	−0.5
2	.9	.75	5.4	2.25	9.2	4.6	3.0	1.4	− .35	− .6	− .7	− .25
3	.7	.7	6.2	2.0	6.5	5.3	2.3	1.9	− .4	− .6	− 7	− .35
4	.5	.6	6.0	1.8	5.3	21.5	1.9	2.15	− 4	− .6	− 7	− .45
5	4.0	.6	5.2	1.6	3.9	21.0	1.5	1.8	− .45	− .65	− 75	− .5
6	9.3	1.5	4.6	1.5	2.9	12.6	1.1	1.9	− .45	− .65	− 75	.2
7	7.8	2.5	5.3	2.5	2.0	8.0	.8	2.1	− .5	− .65	− .75	1.1
8	4.8	2.5	7.0	5.8	2.4	5.7	1.0	2.1	− .55	− 7	− .75	2.0
9	3.85	1.5	17.5	7.0	1.8	3.7	1.5	1.4	− .55	− .7	− .75	2.0
10	2.9	12.8	19.6	3.8	1.5	8.2	2.0	.9	− .6	− 75	− 75	1.2
11	2.4	14.5	16.3	2.9	1.3	6.5	1.5	.7	− .6	− .75	− 75	1.4
12	2.1	10.3	15.4	2.4	1.15	5.3	1.1	.5	− .6	− .75	− .75	.0
13	1.85	8.1	29.0	3.0	1.05	4.7	.9	.3	− .6	− 75	− .75	− .4
14	1.7	17.3	41.5	9.5	.9	4.5	.7	.2	− .6	− 75	− .75	.0
15	5.2	21.5	41.0	7.6	.8	5.0	.6	.1	− .65	.1	− 75	5
16	7.2	22.0	34.6	4.9	.8	4.8	.5	.05	− .65	− .1	− 7	3
17	10.5	17.1	28.0	4.0	1.8	3.8	.5	.05	− .65	− .2	− .1	.1
18	8.5	13.6	20.5	3.3	2.0	3.1	.8	.0	− .7	− .3	− 3	0
19	6.5	10.4	13.5	2.8	1.9	2.4	.7	− 1	− .7	− 4	− .4	.0
20	4.6	8.3	8.1	2.4	2.5	1.8	.6	− .15	− .7	− .5	− .5	− 1
21	3.8	7.2	13.0	2.1	1.4	2.2	.5	− .2	− .6	− 1	− 5	− .2
22	3.2	6.1	14.2	2.0	1.9	21.0	.45	− .25	.1	− .3	− .55	− 3
23	2.9	14.0	9.1	2.8	1.6	19.5	.4	− .3	.0	− .5	− .1	− 4
24	2.65	18.3	7.8	14.5	.9	13.6	.4	− .3	.4	− .5	− .2	− 45
25	2.3	21.0	6.5	8.9	1.2	8.0	.3	− .35	.0	− .5	− .3	− .2
26	1.85	16.6	5.5	11.0	2.6	6.2	.2	− .35	− .3	− .55	− .35	.0
27	1.6	11.2	4.8	10.9	2.5	5.7	.1	− 4	− .4	− .55	− 4	.0
28	1.4	8.5	4.3	10.0	1.9	5.3	.0	− .4	− .45	− .6	− .4	0
29	1.25	.....	3.7	7.9	1.7	4.8	.0	− .4	− .5	− .65	− .45	− .05
30	1.05	.....	3.2	6.1	1.5	4.4	.7	− .4	− .55	− .7	− .45	− .05
31	.95	.....	2.8	.....	1.0	.....	1.6	− .4	.....	− .7	.....	− .05
1910												
1	−0.1	0.6	9.8	0.1	−0.1	0.7	3.8	1.1	−0.3	−0.5	−0.5	−0.6
2	− .1	.5	9.5	.05	− .15	.5	5.9	.8	.0	− .5	− .5	− .6
3	− .1	.45	10.0	.05	.2	.3	5.3	.5	− .6	− .5	− .6	− .6
4	− .15	.45	6.6	.0	.6	.2	5.1	.5	.0	− .6	− .6	− .5
5	− .15	.4	4.9	.05	.3	.1	6.2	.6	− .1	− .6	− .6	.4
6	.5	.4	4.1	.3	.05	.8	6.9	.8	− .2	− .7	− .5	3.5
7	11.1	.4	3.3	.2	− .1	1.5	10.5	3.8	− .2	1.1	− 5	5.8
8	8.5	.35	2.7	.15	.2	.9	9.8	5.3	− .4	.5	− .5	2.7
9	4.8	.35	2.2	.1	.7	.35	7.3	2.6	− .6	.5	− .6	1.1
10	3.75	.35	1.8	.05	.35	1.6	6.4	2.1	− 7	.4	− .6	.7
11	3.0	.3	2.4	.05	.15	7.8	5.3	1.3	− .7	.4	− .6	.5
12	2.3	.4	3.1	.0	.0	4.3	4.1	.8	− .7	.3	− .6	.4
13	1.7	.8	2.2	.0	− .1	3.8	3.15	.7	− .8	.3	− .6	.3
14	1.3	.5	1.9	.0	− .2	3.2	2.6	.7	− .8	1.5	− .6	.3
15	1.0	.4	1.5	− .05	− .25	2.6	2.9	.6	− .9	2.4	− .7	.2
16	.8	.3	1.3	.0	.0	2.0	2.1	.3	− .9	2.3	− .7	.1
17	.7	.3	1.1	1.3	.8	1.5	2.8	.0	− .9	1.0	− .7	.0
18	.6	13.4	1.0	2.0	.4	1.1	3.3	− .2	− .95	.7	− .7	− .1
19	1.2	11.5	.9	1.5	.0	.7	4.2	− .3	− .95	.0	− .7	− .2
20	.8	6.8	.8	1.0	− .1	.4	3.7	− .4	−1.0	− .2	− .7	− .2
21	2.5	5.0	.7	.7	.5	2.7	3.1	− .3	−1.0	− .4	− .7	− .2
22	5.0	5.6	.6	.5	7.2	3.5	2.8	− .4	−1.0	− .5	− .7	− .2
23	3.7	4.9	.55	.4	8.6	3.6	1.7	− .4	−1.0	− .5	− .7	− .2
24	2.8	4.4	.5	.3	6.1	2.0	.7	− .4	− .7	− .6	− .7	.0
25	2.2	4.3	.45	.2	6.6	1.3	.9	− .4	− .4	− .6	− .7	.9
26	1.7	4.0	.4	.1	8.0	1.6	1.4	− .5	− .5	−.6	− .7	.8
27	1.5	3.8	.35	.05	4.7	1.2	1.0	− .5	− .6	− .7	− .7	.6
28	1.3	6.5	.3	.0	3.0	1.6	.7	− .5	− .7	− .3	− .5	.5
29	1.1	.....	.25	− .05	2.1	1.9	.7	− .5	− .6	− .4	− .5	.5
30	.9	.....	.2	− .05	1.5	2.6	.4	− .5	− .5	− .4	− .5	.5
31	75	.....	15	.....	1.0	....	1.3	− .3	.....	− .4	.....	.4

Daily gage height, in feet, of Black Warrior River near Cordova, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1911.												
1	0.4	1.2	7.9	1.5	2.6	−0.15	0.0	−0.2	−0.6	−0.95	−0.9	−0.2
2	16.0	1.1	7.0	1.2	3.4	− .2	− .2	.2	− .6	− .95	−1.0	− .2
3	20.0	.9	6.2	1.0	3.0	− .25	− .3	.9	− .6	− .95	−1.0	− .2
4	24.5	1.1	4.9	.8	2.6	− .3	− .4	1.8	− .65	−1.0	−1.0	− .2
5	19.0	1.4	4.0	22.0	2.0	− .3	− .5	.6	− .7	−1.0	−1.0	− .3
6	6.0	1.5	3.5	28.5	1.5	− .35	− .5	.3	− .7	−1.0	−1.0	− .3
7	4.0	2.5	3.0	16.3	1.2	− .4	.3	.1	− .7	−1.0	−1.0	− .3
8	3.0	4.2	2.2	12.6	.3	− .45	.0	.3	− .7	−1.0	−1.0	− .3
9	2.6	7.8	1.7	22.0	.7	− .5	− .2	.5	− .5	−1.0	− .9	− .3
10	2.0	14.8	1.4	20.0	.5	− .5	.0	.2	− .5	−1.0	− .5	− .4
11	2.0	11.6	1.4	12.0	.4	− .5	.6	.1	− .6	−1.0	− .5	− .3
12	1.8	8.7	1.3	8.7	.3	− .55	.4	.0	.1	−1.0	− .2	2.0
13	1.6	6.1	1.1	6.8	.3	− .6	.4	− .2	.0	−1.0	− .2	7.0
14	1.4	6.1	1.0	5.5	.3	− .65	1.9	.0	− .2	−1.0	− .3	9.2
15	1.4	5.3	1.0	5.0	.2	− .7	1.1	.2	− .3	−1.0	− .4	10.3
16	1.4	4.9	.9	5.3	.15	− .7	.3	.5	− .4	−1.0	− .5	12.2
17	1.3	4.1	.8	5.0	.15	− .7	.6	.7	− .5	− .5	− .6	11.4
18	1.3	3.6	.8	4.2	.0	− .7	.4	1.2	− .55	2.0	− .4	8.5
19	1.0	2.9	.7	3.7	.0	− .7	.2	1.6	− .6	1.1	− .4	6.4
20	1.0	3.3	.6	17.1	.1	− .5	.1	1.1	− .6	1.0	− .4	4.8
21	.8	3.8	.6	12.2	.5	− .5	.3	.7	− .6	.9	− .4	5.4
22	.7	3.0	.6	8.0	1.3	− .5	.6	.3	− .65	.7	− .5	7.4
23	.6	2.6	.6	5.1	3.1	− .5	1.1	.0	− .7	.5	− .5	14.0
24	.4	2.3	.5	4.0	2.0	.3	.9	− .2	− .75	.2	− .2	13.0
25	1.2	2.1	.5	3.2	2.4	.4	.6	− .25	− .3	.1	− .1	8.5
26	1.9	2.0	1.1	2.4	1.5	.9	.3	− .2	− .35	.1	− .2	9.4
27	1.8	2.5	2.5	2.1	.8	1.5	.0	− .35	− .9	.0	− .2	20.2
28	1.7	3.7	3.0	2.8	.5	1.1	− .1	− .4	− .9	.0	.7	20.5
29	1.6	.....	2.6	2.8	.2	.9	− .2	− .4	− .9	− .1	.3	12.5
30	1.6	.....	2.2	2.7	.0	.4	− .3	− .5	− .9	− .3	.3	7.6
31	1.5	.....	1.7	.....	− .1	.....	− .3	− .6	.....	− .6	.....	14.0
1912												
1	16.0	9.5	6.5	19.6	9.0	−0.3	1.5	0.0	0.0	0.0	0.0	0.0
2	13.0	6.5	5.0	18.7	6.0	− .2	1.5	.0	.0	.0	.0	.0
3	8.7	5.1	4.5	13.6	5.0	− .3	1.0	.0	.0	.0	.0	.0
4	7.3	4.2	5.5	9.5	4.6	− .4	.8	.0	.0	.0	.0	.3
5	3.1	3.5	5.0	7.2	3.5	− .3	.0	.0	.0	.0	.0	1.0
6	4.7	2.8	8.0	5.7	3.0	− .4	.0	.0	.0	.0	.0	5.5
7	3.8	2.7	8.5	5.0	5.0	− .0	0.0	.0	.0	.0	.8	4.5
8	3.7	2.0	7.0	5.5	5.5	− .3	4.5	.0	.0	.0	.7	3.6
9	13.5	2.0	9.0	4.5	4.5	− .4	4.4	2.0	.0	.0	.7	2.6
10	13.3	2.0	9.8	4.0	3.5	− .3	4.5	2.8	.0	.0	.6	2.0
11	8.5	1.8	8.0	4.7	3.0	.0	3.6	4.0	.0	.0	.4	1.0
12	6.5	1.6	7.5	4.5	2.5	.0	2.0	2.0	.0	.0	.4	1.2
13	5.2	1.6	7.4	4.5	3.5	.0	2.0	1.0	.0	.0	.4	1.2
14	4.2	1.7	6.1	4.0	2.0	.0	1.5	3.0	.0	.0	.4	1.0
15	3.6	5.0	12.0	3.5	1.5	5.0	1.0	1.0	.0	.0	.4	1.0
16	3.2	5.6	24.0	9.0	1.5	2.0	1.0	.5	.0	.0	.0	1.0
17	2.6	4.9	16.0	24.0	1.5	1.0	.5	1.0	.0	.0	.0	1.0
18	1.5	4.3	10.0	28.0	1.5	.8	2.0	1.0	.0	.0	.0	1.3
19	2.3	3.6	7.0	18.0	.0	.0	2.8	.5	− .5	.0	.0	1.3
20	4.5	3.6	5.7	10.6	− .2	.0	3.0	.0	− .3	.8	.0	1.0
21	3.7	9.6	5.0	8.0	.6	.0	3.0	.0	.0	.7	.0	1.0
22	3.0	16.6	4.0	7.0	.7	.0	2.0	.0	− .3	.6	.0	1.0
23	2.4	11.3	4.0	23.0	.0	.0	1.0	.5	.0	.5	.0	1.7
24	2.3	7.5	11.0	24.0	.0	.0	.5	.6	.0	.4	.0	3.4
25	2.7	8.7	18.0	8.5	.0	.0	.0	1.0	.0	.3	.0	3.5
26	2.0	19.0	11.0	6.2	.0	.0	.0	.5	.0	.0	.0	2.3
27	1.7	19.5	8.0	5.0	.0	.0	.0	.6	.0	.0	.0	2.8
28	1.5	13.0	6.0	13.5	.0	.0	.0	.7	.0	.0	.0	2.4
29	11.0	8.7	22.0	13.5	.0	3.0	.0	.3	.0	.0	.0	2.0
30	19.3	.....	27.0	10.0	.0	1.0	.0	.0	.0	.0	.0	2.8
31	13.0	.....	19.0	.....	− .6	.....	.0	.0	.....	.0	.....	6.0

Rating table for Black Warrior River near Cordova, Ala., for 1900, 1901 and 1902.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
—1.0	95	2.2	2,652	5.4	7,252	19.0	27,380
— .8	160	2.4	2,868	5.6	7,548	20.0	28,860
— .6	260	2.6	3,118	5.8	7,844	21.0	30,340
— .4	384	2.8	3,404	6.0	8,140	22.0	31,820
— .2	518	3.0	3,700	7.0	9,620	23.0	33,300
.0	660	3.2	3,996	8.0	11,100	24.0	34,780
.2	810	3.4	4,292	9.0	12,580	25.0	36,260
.4	968	3.6	4,588	10.0	14,060	26.0	37,740
.6	1,134	3.8	4,884	11.0	15,540	27.0	39,220
.8	1,307	4.0	5,180	12.0	17,020	28.0	40,700
1.0	1,486	4.2	5,476	13.0	18,500	29.0	42,180
1.2	1,669	4.4	5,772	14.0	19,980	30.0	43,660
1.4	1,856	4.6	6,068	15.0	21,460	31.0	45,140
1.6	2,047	4.8	6,364	16.0	22,940	32.0	46,620
1.8	2,242	5.0	6,660	17.0	24,420	33.0	48,100
2.0	2,444	5.2	6,956	18.0	25,900	34.0	49,580

Rating table for Black Warrior River near Cordova, Ala., for 1903.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
—0.90	78	.20	650	2.20	2,360	5.40	6,800
— .85	89	.30	725	2.30	2,475	5.60	7,100
— .80	100	.40	800	2.40	2,590	5.80	7,400
— .75	112	.50	875	2.50	2,705	6.00	7,700
— .70	126	.60	950	2.60	2,820	8.00	10,700
— .65	142	.70	1,025	2.70	2,935	8.60	11,600
— .60	159	.80	1,100	2.80	3,050	9.00	12,200
— .55	178	.90	1,175	2.90	3,175	10.00	13,700
— .50	198	1.00	1,250	3.00	3,300	11.00	15,200
— .45	221	1.10	1,325	3.20	3,560	12.00	16,700
— .40	247	1.20	1,400	3.40	3,830	13.00	18,200
— .35	276	1.30	1,480	3.60	4,110	14.00	19,700
— .30	307	1.40	1,560	3.80	4,400	15.00	21,200
— .25	340	1.50	1,650	4.00	4,700	16.00	22,700
— .20	374	1.60	1,740	4.20	5,000	17.00	24,200
— .15	408	1.70	1,840	4.40	5,300	18.00	25,700
— .10	442	1.80	1,940	4.60	5,600	19.00	27,200
— .05	476	1.90	2,040	4.80	5,900	20.00	28,700
.00	510	2.00	2,140	5.00	6,200	21.00	30,200
.10	580	2.10	2,250	5.20	6,500		

Rating table for Black Warrior River near Cordova, Ala., for 1904.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
—1.00	28	0.00	560	1.00	1,450	2.80	3,300
— .90	53	.10	645	1.20	1,630	3.00	3,540
— .80	80	.20	730	1.40	1,820	3.20	3,780
— .70	110	.30	820	1.60	2,010	3.40	4,030
— .60	145	.40	910	1.80	2,210	3.60	4,290
— .50	190	.50	1,000	2.00	2,410	3.80	4,550
— .40	250	.60	1,090	2.20	2,615	4.00	4,820
— .30	320	.70	1,180	2.40	2,830	5.00	6,230
— .20	400	.80	1,270	2.60	3,060	6.00	7,700
— .10	480	.90	1,360				

The above table is based upon twenty-six discharge measurements made during 1900-1904. It is well defined between gage heights —1.0 feet and 6.0 feet. The table has been extended beyond these limits, being based on three high-water measurements. Above gage height 6 feet the rating curve is a tangent, the difference being 150 per tenth.

Station rating table for Black Warrior River near Cordova, Ala., for 1905.

Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.
Feet.	*Second-feet.*	*Feet.*	*Second-feet.*	*Feet.*	*Second-feet.*	*Feet.*	*Second-feet.*
−1.00	28	.90	1,360	2.70	3,175	5.00	6,080
− .90	53	1.00	1,450	2.80	3,290	5.20	6,340
− .80	80	1.10	1,540	2.90	3,405	5.40	6,600
− .70	110	1.20	1,630	3.00	3,525	5.60	6,870
− .60	145	1.30	1,725	3.10	3,645	5.80	7,150
− .50	190	1.40	1,820	3.20	3,765	6.00	7,430
− .40	250	1.50	1,915	3.30	3,885	6.20	7,710
− .30	320	1.60	2,010	3.40	4,005	6.40	7,990
− .20	400	1.70	2,110	3.50	4,130	6.60	8,270
− .10	480	1.80	2,210	3.60	4,260	6.80	8,550
0.00	560	1.90	2,310	3.70	4,390	7.00	8,830
.10	645	2.00	2,410	3.80	4,520	7.20	9,110
.20	730	2.10	2,510	3.90	4,650	7.40	9,390
.30	820	2.20	2,615	4.00	4,780	7.60	9,670
.40	910	2.30	2,720	4.20	5,040	7.80	9,950
.50	1,000	2.40	2,830	4.40	5,300	8.00	10,230
.60	1,090	2.50	2,945	4.60	5,560	8.50	10,930
.70	1,180	2.60	3,060	4.80	5,820	9.00	11,650
.80	1,270						

The above table is based on discharge measurements made during 1900–1905. It is well defined to 14 feet. Above gage height 8.8 feet the rating curve is a tangent, the difference being 150 per tenth. Below gage height 2.6 feet the table is the same as for 1904.

Rating table for Black Warrior River near Cordova, Ala., for 1906 and 1907.a

Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.
Feet.	*Sec.-ft.*	*Feet.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Feet.*	*Sec.-ft.*
−1.00	28	0.70	1,075	2.80	3,290	11.00	14,650
− .9	53	.80	1,170	3.00	3,525	12.00	16,150
− .8	80	.90	1,265	3.20	3,765	13.00	17,650
− .7	110	1.00	1,360	3.40	4,005	14.00	19,150
− .6	145	1.10	1,455	3.60	4,260	15.00	20,650
− .5	190	1.20	1,550	3.80	4,520	16.00	22,150
− .4	240	1.30	1,650	4.00	4,780	17.00	23,650
− .3	300	1.40	1,750	4.20	5,040	18.00	25,150
− .2	365	1.50	1,850	4.40	5,300	19.00	26,650
− .1	430	1.60	1,955	4.60	5,560	20.00	28,150
0.00	500	1.70	2,060	4.80	5,820	21.00	29,650
.10	575	1.80	2,165	5.00	6,080	22.00	31,150
.20	650	1.90	2,270	6.00	7,430	23.00	32,650
.30	730	2.00	2,380	7.00	8,830	24.00	34,150
.40	810	2.20	2,600	8.00	10,230	25.00	35,650
.50	895	2.40	2,830	9.00	11,650	26.00	37,150
.60	985	2.60	3,060	10.00	13,150	27.00	38,650

FOR 1908.b

−1.00	70	− .4	290	.20	685	.80	1,170
− .9	95	− .3	345	.30	760	.90	1,265
− .8	125	− .2	405	.40	835	1.00	1,360
− .7	155	− .1	470	.50	915		
− .6	195	.0	540	.60	995		
− .5	240	.10	610	.70	1,080		

a The above table is not applicable for obstructed-channel conditions. It is based on discharge measurements made during 1900 to 1906, and is well defined between gage heights 1 and 14 feet. Below gage height 1 foot the 1906 rating curve is assumed to apply to 1907, although no measurements were made during 1907 to confirm this. See 1908 rating. Above gage height 8.8 feet the rating curve is a tangent, the difference being 150 per tenth.

b The above table is not applicable for obstructed-channel conditions. It is based on one discharge measurement made during 1908 and the general form of the 1906 to 1907 rating curve and is well defined between gage heights 1 foot and 14 feet. Below gage height 0.5 foot the rating is radically different from that for 1907 as based on the low-water measurement made during 1908. General intercomparisons of discharge in the Black Warrior and adjacent drainage basins for 1907 and 1908 tend to show that the rating curves as used above are essentially correct. Above gage height 1 foot the 1908 rating is the same as for 1907.

Daily discharge, in second-feet, of Black Warrior River near Cordova, Ala.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1909.												
1	1,460	1,220	7,710	3,940	10,100	2,160	4,520	2,380	318	195	155	240
2	1,260	1,120	6,600	2,660	12,000	5,560	3,520	1,750	318	195	155	375
3	1,080	1,080	7,710	2,380	8,130	6,470	2,720	2,270	290	195	155	318
4	915	995	7,430	2,160	6,470	30,400	2,270	2,540	290	195	155	265
5	4,780	995	6,340	1,960	4,650	29,600	1,850	2,160	265	175	140	240
6	12,100	1,850	5,560	1,850	3,400	17,000	1,460	2,270	265	175	140	685
7	9,950	2,940	6,470	2,940	2,380	10,200	1,170	2,490	240	175	140	1,460
8	5,820	2,940	8,830	7,150	2,830	7,010	1,360	2,490	218	155	140	2,380
9	4,580	1,850	24,400	8,830	2,160	4,390	1,850	1,750	218	155	140	2,380
10	3,400	17,400	27,600	4,520	1,850	10,500	2,380	1,260	195	140	140	1,580
11	2,830	19,900	22,600	3,400	1,650	8,130	1,850	1,080	195	140	140	1,780
12	2,490	13,600	21,200	2,830	1,500	6,470	1,460	915	195	140	140	540
13	2,220	10,400	41,600	3,520	1,410	5,690	1,260	760	195	140	140	290
14	2,060	24,100	60,400	12,400	1,260	5,430	1,080	685	195	140	140	540
15	6,340	30,400	59,600	9,670	1,170	6,080	995	610	175	610	140	915
16	9,110	31,200	50,000	5,950	1,170	5,820	915	575	175	470	155	760
17	13,900	23,800	40,200	4,780	2,160	4,520	915	575	175	405	470	610
18	10,900	18,600	28,900	3,880	2,380	3,640	1,170	540	155	345	345	540
19	8,130	13,800	18,400	3,290	2,270	2,830	1,080	470	155	290	290	540
20	5,560	10,600	10,400	2,830	2,940	2,160	995	438	155	240	240	470
21	4,520	9,110	17,600	2,490	1,750	2,600	915	405	195	470	240	405
22	3,760	7,570	19,400	2,380	2,270	29,600	875	375	610	345	218	345
23	3,400	19,200	11,800	3,290	1,960	27,400	835	345	540	240	470	290
24	3,120	25,600	9,950	19,900	1,260	18,600	835	345	835	240	405	265
25	2,720	29,600	8,130	11,500	1,550	10,200	760	318	540	240	345	405
26	2,220	23,000	6,730	14,600	3,060	7,710	685	318	345	218	318	540
27	1,960	15,000	5,820	14,500	2,940	7,010	610	290	290	218	290	540
28	1,750	10,900	5,170	13,200	2,270	6,470	540	290	265	195	290	540
29	1,600	.....	4,360	10,100	2,060	5,820	540	290	240	175	265	505
30	1,410	.....	3,760	7,570	1,850	5,300	1,080	290	218	155	265	505
31	1,310	.....	3,290	.....	1,360	.....	1,960	290	.....	155	.....	505
1910.												
1	430	995	12,800	575	430	1,080	4,520	1,460	300	190	190	145
2	430	895	12,400	538	398	895	7,290	1,170	500	190	190	145
3	430	852	13,200	538	650	730	6,470	895	895	145	190	145
4	398	852	8,270	500	995	650	6,210	895	500	145	145	190
5	398	810	5,960	538	730	575	7,710	995	430	145	145	810
6	895	810	4,910	730	538	1,170	8,690	1,170	365	110	190	4,130
7	14,800	810	3,880	650	430	1,850	13,900	4,520	365	1,460	190	7,180
8	10,900	770	3,180	612	650	1,260	12,800	6,470	240	895	190	3,180
9	5,820	770	2,600	575	1,080	770	9,250	3,060	145	895	145	1,460
10	4,460	770	2,160	538	770	1,960	7,990	2,490	110	810	145	1,080
11	3,520	730	4,000	538	612	9,950	6,470	1,650	110	810	145	895
12	2,720	810	3,640	500	500	5,170	4,910	1,170	110	730	145	810
13	2,060	1,170	2,600	500	430	4,520	3,700	1,080	80	730	145	730
14	1,650	895	2,270	500	365	3,700	4,250	1,080	80	1,850	145	730
15	1,360	810	1,850	465	332	3 060	4,650	995	53	2,830	110	680
16	1,170	730	1,650	500	500	2,380	2,490	730	53	2,720	110	575
17	1,080	895	1,460	1,650	1,170	1,850	3,290	500	53	1,360	110	500
18	995	18,200	1,360	2,360	810	1,460	3,880	365	40	1,080	110	430
19	1,550	15,400	1,260	1,850	500	1,080	5,040	300	40	600	110	365
20	1,170	8,550	1,170	1,360	430	810	4,360	240	28	365	110	365
21	2,940	6,080	1,080	1,080	895	3,180	3,640	260	28	240	110	300
22	6,080	6,870	995	895	9,110	4,130	3,290	240	28	190	110	300
23	4,360	5,950	940	810	11,100	4,360	2,060	240	28	190	110	300
24	3,290	5,300	895	730	7,670	2,380	1,080	240	110	145	110	500
25	2,600	5,170	852	650	8,270	1,650	1,260	240	240	145	110	1,260
26	2,060	4,780	810	1,460	10,200	1,900	1,750	190	190	145	110	1,170
27	1,850	4,130	770	538	5,690	1,550	1,360	190	145	110	110	995
28	1,650	8,130	730	500	3,520	1,900	1,080	190	110	300	190	895
29	1,460	.....	690	465	2,490	2,270	1,080	190	145	240	190	895
30	1,260	.....	650	465	1,850	3,060	810	190	190	240	190	895
31	1,120	.....	612	.....	1,360	.....	1,650	300	.....	240	.....	810

Daily discharge, in second-feet, of Black Warrior River near Cordova, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1911.												
1	880	1,650	10,100	1,850	3,080	508	605	475	250	115	130	475
2	22,200	1,460	8,830	1,560	4,000	475	475	740	250	115	100	475
3	43,200	1,280	7,710	1,360	3,520	445	415	1,280	250	115	100	475
4	35,900	1,460	5,950	1,190	3,080	415	355	2,160	228	100	100	475
5	13,200	1,750	4,780	31,200	2,380	415	300	1,030	205	100	100	415
6	7,430	1,850	4,130	40,900	1,850	385	300	810	205	100	100	415
7	4,780	4,130	3,520	23,400	1,560	355	810	670	205	100	100	415
8	3,520	5,040	2,600	17,000	1,190	328	605	810	205	100	100	415
9	3,080	9,950	2,080	31,200	1,110	300	475	955	300	100	130	415
10	2,380	20,400	1,750	28,200	955	300	605	740	300	100	300	355
11	2,380	15,600	1,750	16,200	880	300	1,030	670	250	100	300	415
12	2,160	11,200	1,650	11,200	810	275	880	605	670	100	475	2,380
13	1,960	7,570	1,460	8,550	810	250	880	475	605	100	475	8,830
14	1,750	7,570	1,360	6,730	810	228	2,270	605	475	100	415	12,000
15	1,750	7,150	1,360	6,080	740	205	1,460	740	415	100	355	13,600
16	1,750	5,950	1,280	6,470	705	205	1,190	955	355	100	300	18,100
17	1,650	4,910	1,190	6,080	705	205	1,030	1,110	300	300	250	15,200
18	1,650	4,260	1,190	5,040	605	205	880	1,560	275	3,520	355	8,130
19	1,360	3,400	1,110	4,390	605	205	740	1,980	250	1,460	355	7,990
20	1,360	4,520	1,030	23,800	670	300	670	1,460	250	1,360	355	5,430
21	1,190	4,520	1,030	18,000	955	300	810	1,110	250	1,280	355	6,600
22	1,110	3,520	1,030	10,200	1,650	300	1,030	810	228	1,110	300	9,380
23	1,030	3,060	1,030	6,210	3,640	300	1,460	605	205	955	300	19,200
24	880	2,720	955	4,780	3,520	1,190	1,280	475	185	740	475	17,600
25	1,560	2,490	955	3,760	2,830	880	1,030	445	165	670	540	10,900
26	2,270	2,380	1,460	2,830	1,850	1,280	810	415	148	670	475	12,200
27	2,160	2,940	2,940	2,490	1,190	1,850	605	385	130	605	475	28,400
28	2,080	11,200	3,520	3,290	955	1,460	540	358	130	605	1,110	28,900
29	1,980	.....	3,060	3,290	740	1,280	475	355	130	540	1,190	16,900
30	1,980	.....	2,600	3,180	605	880	415	300	130	415	1,190	9,670
31	1,850	.....	2,060	.....	540	.....	415	250	.....	250	.....	19,200
1912												
1	25,200	12,400	8,130	27,600	11,600	415	1,850	605	605	605	605	605
2	17,600	8,130	6,080	26,200	7,430	475	1,850	605	605	605	605	605
3	11,200	6,210	5,430	17,600	6,080	165	1,360	605	605	605	605	605
4	9,250	5,040	6,730	12,400	5,560	355	1,190	605	605	605	605	810
5	3,640	4,130	6,080	9,110	4,130	165	605	605	605	605	605	1,360
6	5,690	3,290	10,200	7,010	3,520	355	605	605	605	605	605	6,730
7	4,520	3,180	10,900	6,080	6,080	605	7,430	605	605	605	1,190	5,430
8	4,390	2,380	8,830	6,730	6,730	415	5,430	605	605	605	1,110	4,260
9	18,400	2,380	11,600	5,430	5,430	355	5,300	2,380	605	605	1,110	3,060
10	18,800	2,380	12,800	4,780	4,130	165	5,430	3,290	605	605	1,030	2,380
11	10,900	2,160	10,200	5,690	3,520	605	4,260	4,780	605	605	880	1,360
12	8,130	1,960	9,530	5,430	2,940	605	2,380	2,380	605	605	880	1,560
13	6,340	1,960	9,390	5,430	4,130	605	2,380	1,360	605	605	880	1,560
14	5,040	2,060	7,570	4,780	2,380	605	1,850	3,520	605	605	880	1,360
15	4,260	6,080	16,200	4,130	1,850	6,080	1,360	1,360	605	605	880	1,360
16	3,760	6,870	34,200	11,600	1,850	2,380	1,360	955	605	605	605	1,360
17	3,060	5,950	22,200	34,200	1,860	1,360	955	1,360	605	605	605	1,360
18	1,850	5,170	13,200	40,200	1,850	1,190	2,380	1,360	605	605	605	1,650
19	2,720	4,260	8,830	25,200	605	605	3,290	955	300	605	605	1,650
20	5,430	4,260	7,010	14,000	475	605	3,520	605	415	1,190	605	1,360
21	4,390	12,600	6,080	10,200	1,030	605	3,520	605	605	1,110	605	1,360
22	3,520	23,000	4,780	8,830	1,110	605	2,380	605	415	1,030	605	1,360
23	2,830	15,100	4,780	32,600	605	605	1,360	955	605	955	605	2,080
24	2,720	9,530	14,700	34,200	605	605	955	1,030	605	880	605	4,000
25	3,180	11,200	25,200	10,900	605	605	605	1,360	606	810	605	4,130
26	2,380	26,600	14,600	7,710	606	605	605	955	606	606	605	2,720
27	2,060	27,400	10,200	6,080	605	605	605	1,030	605	605	605	3,290
28	1,850	17,600	7,430	18,400	605	605	605	1,110	605	605	605	2,830
29	14,600	11,200	31,200	18,400	605	3,520	605	810	605	605	605	2,380
30	27,100	.....	38,600	13,200	605	1,360	605	605	605	605	605	3,290
31	17,600	.....	26,600	.....	250	.....	605	695	.....	605	.....	7,430

NOTE.—Daily discharge computed from a rating curve fairly well defined between 1,400 and 19,000 second-feet. Low-water estimates below 1,000 second-feet are very uncertain.

Monthly discharge of Black Warrior River near Cordova, Ala.

[Drainage area, 237 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-feet per square mile.	Depth in inches.
1900					
June	49,284	1,134	16,185	8.52	9.51
July	11,248	810	2,975	1.57	1.81
August	2,144	660	1,016	.53	.61
September	1,951	205	556	.29	.32
October	13,098	60	1,732	.91	1.05
November	6,808	384	1,487	.78	.87
December	6,660	968	2,154	1.13	1.30
1901					
January	51,800	1,762	8,713	4.59	5.29
February	31,820	1,486	6,616	3.48	3.62
March	29,600	1,486	6,637	3.49	4.02
April	23,088	2,242	6,967	3.67	4.10
May	10,064	968	2,539	1.34	1.54
June	5,920	320	1,582	.83	.93
July	3,404	205	631	.33	.38
August	17,168	205	4,155	2.19	2.53
September	6,660	320	1,415	.74	.83
October	1,669	320	687	.36	.42
November	660	320	468	.25	.28
December	31,820	518	4,923	2.59	2.99
The year	51,800	205	3,778	1.99	26.93
1902					
January	17,020	1,396	5,692	3.00	3.46
February	32,856	2,652	8,599	4.53	4.72
March	56,980	3,258	13,764	7.24	8.35
April	26,048	1,050	5,366	2.82	3.15
May	1,307	205	630	.33	.38
June	518	125	193	.10	.11
July	125	74	99	.05	.06
August	660	74	170	.09	.10
September	260	74	105	.06	.07
October	3,552	160	536	.28	.32
November	11,100	160	880	.46	.51
December	15,984	1,050	4,395	2.31	2.66
The year	56,980	74	3,369	1.77	23.89
1903					
January	13,700	1,480	4,806	2.27	2.62
February	42,950	2,475	17,941	9.44	9.83
March	40,100	1,840	10,203	5.37	6.19
April	17,000	1,250	4,778	2.51	2.80
May	28,850	800	4,176	2.20	2.54
June	5,750	510	1,661	.87	.97
July	510	159	317	.17	.20
August	875	126	306	.16	.18
September	126	78	97	.05	.06
October	307	78	148	.08	.09
November	247	159	198	.10	.11
December	875	159	252	.13	.15
The year	42,950	78	3,698	1.95	25.74

Monthly discharge of Black Warrior River near Cordova, Ala.—Continued.

[Drainage area, 1,900 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-feet per square mile.	Depth in inches.
1904					
January	3,420	190	613	0.323	0.372
February	1,180	480	720	.379	.409
March	11,600	560	3,818	2.01	2.32
April	9,500	190	2,606	1.37	1.53
May	1,725	145	409	.215	.248
June	3,060	80	378	.199	.222
July	3,180	190	516	.272	.314
August	1,630	80	693	.365	.421
September	190	28	78.0	.041	.046
October	53	28	44.9	.024	.028
November	645	53	298	.157	.175
December	17,300	400	2,277	1.20	1.38
The year	17,300	28	1,038	.546	7.46
1905					
January	27,100	820	4,798	2.53	2.92
February	43,150	3,175	14,280	7.52	7.83
March	22,750	1,915	4,559	2.40	2.77
April	5,170	1,090	1,820	.958	1.07
May	12,400	1,450	3,889	2.05	2.36
June	3,885	320	880	.463	.517
July	2,330	80	957	.504	.581
August	9,530	190	1,908	1.00	1.15
September	10,510	285	1,753	.923	1.03
October	4,260	145	1,120	.589	.679
November	1,915	320	1,070	.563	.628
December	9,390	910	4,571	2.41	2.78
The year	43,150	80	3,468	1.83	24.32
1906					
January	49,400	3,120	9,860	5.19	5.98
February	4,910	985	2,040	1.07	1.11
March	34,900	1,960	13,700	7.21	8.31
April	19,400	852	3,620	1.91	2.13
May	5,040	430	1,530	.805	.93
June	1,460	145	680	.358	.40
July	12,800	128	2,400	1.26	1.45
August	4,650	365	1,350	.71	.82
September	28,900	300	2,700	1.42	1.58
October	23,600	650	5,390	2.84	3.27
November	9,110	500	1,560	.821	.92
December	19,900	810	2,270	1.19	1.37
The year	49,400	128	3,930	2.07	28.27
1907					
January	19,900	1,460	3,460	1.82	2.10
February	27,400	1,260	6,180	3.25	3.38
March	30,100	1,080	5,620	2.96	3.41
April	3,290	852	1,610	.847	.94
May	20,800	1,260	6,350	3.34	3.85
June	9,110	538	1,850	.974	1.09
July	2,380	240	766	.403	.46
August	500	28	158	.083	.10
September	1,260	53	419	.221	.25
October	1,170	110	321	.169	.19
November	2,890	110	698	.367	.41
December	4,780	365	1,640	.863	.99
The year	30,100	28	2,420	1.28	17.17

Monthly discharge of Black Warrior River near Cordova, Ala.—Continued.

[Drainage area, 1,900 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-feet per square mile.	Depth in inches.
1908					
January	8,880	1,360	3,770	1.98	2.28
February	34,600	3,520	11,200	5.89	6.35
March	38,400	2,270	9,740	5.13	5.91
April	11,100	1,550	3,490	1.84	2.05
May	30,400	1,220	6,810	3.58	4.13
June	3,640	405	1,460	.768	.86
July	1,460	265	616	.324	.37
August	1,360	125	424	.223	.26
September	218	70	111	.058	.06
October	155	95	117	.062	.07
November	470	95	218	.115	.13
December	24,400	290	4,280	2.25	2.59
The year	38,400	70	3,520	1.85	25.06
1909					
January	13,900	915	4,410	2.32	2.68
February	31,200	995	13,200	6.95	7.24
March	34,900	3,290	18,000	9.47	10.92
April	19,900	1,850	6,320	3.33	3.72
May	12,000	1,170	3,040	1.60	1.84
June	30,400	2,160	9,830	5.17	5.77
July	4,520	540	1,430	.753	.87
August	2,540	290	1,020	.537	.62
September	335	155	282	.148	.17
October	610	140	236	.124	.14
November	470	140	226	.119	.13
December	2,380	240	700	.368	.42
The year	60,400	140	4,830	2.54	34.52
1910					
January	14,800	398	2,740	1.44	1.66
February	18,200	730	3,680	1.94	2.02
March	13,200	612	3,210	1.69	1.95
April	2,380	465	788	.415	.46
May	11,100	332	2,400	1.26	1.45
June	9,950	575	2,380	1.25	1.40
July	13,900	810	4,740	2.49	2.87
August	6,470	190	1,090	.574	.66
September	895	28	190	.100	.11
October	2,380	110	650	.342	.39
November	190	110	143	.075	.08
December	7,150	145	1,060	.558	.64
The year	18,200	28	1,920	1.01	13.69
1911					
January	43,200	880	5,560	2.93	3.38
February	20,400	1,280	5,500	2.89	3.01
March	10,100	955	2,760	1.45	1.67
April	40,900	1,190	11,000	5.79	6.46
May	4,000	540	1,560	.821	.95
June	1,850	205	534	.281	.31
July	2,270	300	801	.422	.49
August	2,160	250	816	.429	.49
September	670	130	265	.139	.16
October	3,520	100	520	.274	.32
November	1,190	100	377	.198	.22
December	28,900	355	8,880	4.67	5.38
The year	43,200	100	3,200	1.68	22.84

Monthly discharge of Black Warrior River near Cordova, Ala.

Month. 1912	Discharge in second-feet.				Run-off (depth in inches on drainage area).
	Maximum.	Minimum.	Mean.	Per square mile.	
January	27,100	1,850	8,140	4.28	4.93
February	27,400	1,980	8,430	4.44	4.79
March	38,600	4,780	13,200	6.95	8.01
April	40,200	4,130	14,500	7.63	8.51
May	11,600	250	2,880	1.52	1.75
June	6,080	165	928	.488	.54
July	7,430	605	2,170	1.14	1.31
August	4,780	605	1,250	.658	.76
September	605	300	582	.306	.34
October	1,190	605	661	.358	.41
November	1,190	605	718	.378	.43
December	7,430	605	2,430	1.28	1.48
The year	40,200	165	4,640	2.44	33.25

BLACK WARRIOR RIVER NEAR COAL, ALA.

The station is located one-fourth mile below the mouth of Locust Fork of Black Warrior River, near the foot of the rapids known as Fork Shoals. It is one-half mile above Taylors Ferry, which is 3 miles from Coal and 20 miles from Bessemer, Ala., the nearest railroad station. It was established September 2, 1908. The gage heights and discharge measurements have been furnished by the Tennessee Coal, Iron, and Railroad Company.

The vertical staff gage is located at Taylors Ferry, one-half mile below the measuring section. The left bank is high and does not overflow. The right bank overflows for about 200 feet at high stages. The station was discontinued May 31, 1910.

Discharge measurements of Black Warrior River near Coal, Ala.

Date.	Gage height. Feet.	Discharge. Sec.-feet.	Date.	Gage height. Feet.	Discharge. Sec.-feet.
1908			December 10	4.80	8,020
September 2	1.05	473			
September 8	2.00	1,750	1909		
September 18	.80	194	January 5	6.65	13,100
October 19	.83	218	January 6	9.00	22,100
December 9	6.60	12,400	August 25	1.05	444
			November 17	.97	329

Daily gage height, in feet, of Black Warrior River near Coal, Ala., for 1908.

Day.	Sept.	Oct.	Nov.	Dec.	Day.	Sept.	Oct.	Nov.	Dec
1	1.1	0.8	0.8	1.0	17	0.85	0.9	0.8	2.1
2	1.1	.8	.8	1.35	18	.8	.85	.8	2.0
3	1.0	.8	.8	1.5	19	.8	.85	.8	2.0
4	.9	.8	.8	1.4	20	.8	.85	.8	2.0
5	.9	8	.9	1.3	21	.8	.85	.8	2.2
6	.9	.8	.9	1.3	22	.8	.85	.8	9.05
7	1.5	.8	.8	12.5	23	.8	.8	.8	12.0
8	1.95	.8	.8	12.5	24	.8	.8	.9	9.1
9	1.45	.8	.8	7.85	25	.8	.8	.9	6.75
10	1.15	.85	.8	4.6	26	.8	.8	.9	5.2
11	1.0	.9	.8	3.7	27	.8	.8	.9	4.5
12	1.0	.9	.8	2.95	28	.8	.8	.9	3.95
13	.95	.9	.8	2.9	29	.8	.8	.9	3.65
14	.9	.9	.8	2.8	30	.8	.8	.9	3.35
15	.9	.9	.8	2.55	31		.75		3.15
16	.9	.9	.8	2.25					

Daily gage height, in feet, of Black Warrior River near Coal, Ala., for 1909.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	2.95	2.6	6.3	4.1	9.4	4.3	4.4	2.6	1.2	1.05	0.95	1.0
2	2.7	2.4	6.0	3.9	9.5	5.3	4.1	2.6	1.35	.95	.95	1.0
3	2.5	2.3	7.8	3.7	7.2	12.2	3.5	2.8	1.3	.95	.95	1.0
4	2.8	2.3	6.6	3.6	5.0	20.1	2.9	3.7	1.2	.95	.95	1.0
5	4.6	2.3	5.7	3.3	4.9	18.4	1.7	3.4	1.1	.95	.95	1.0
6	3.0	3.3	5.2	3.1	4.9	13.6	1.5	3.2	1.05	.95	.95	1.0
7	3.5	4.0	6.5	4.5	4.2	8.1	1.5	3.0	1.05	.95	.95	1.35
8	6.0	3.6	8.5	7.4	3.9	6.1	1.4	3.0	1.05	.95	.95	3.0
9	5.0	3.6	8.6	6.9	3.5	5.3	2.4	2.4	1.05	.95	.95	3.2
10	4.6	11.4	18.0	5.3	3.4	6.0	3.0	1.95	1.15	.95	.95	2.4
11	4.2	12.1	16.4	4.6	3.4	7.2	2.5	1.75	1.15	.95	.95	2.0
12	3.8	8.5	16.0	5.0	3.4	6.6	1.9	1.6	1.15	.95	.95	1.75
13	3.6	9.2	24.6	7.1	3.4	5.8	1.9	1.6	1.15	.95	.95	1.95
14	6.8	14.0	30.2	9.1	3.4	5.6	2.3	1.5	1.05	.95	.95	2.2
15	7.6	16.6	28.0	7.5	3.0	5.9	1.8	1.4	1.05	.95	.95	2.0
16	9.2	16.5	22.0	6.2	2.6	5.3	1.7	1.3	1.05	.95	.95	2.0
17	8.6	14.0	12.8	5.2	2.1	4.6	1.9	1.2	1.05	1.05	.95	1.9
18	6.8	10.5	9.0	4.7	2.6	3.9	1.6	1.2	1.05	1.25	1.0	1.75
19	5.9	9.0	8.0	4.2	2.1	3.6	1.4	1.15	1.1	1.2	1.0	1.5
20	5.2	9.0	7.5	3.9	3.3	3.5	1.3	1.1	1.05	1.15	1.0	1.5
21	4.7	7.4	7.0	3.6	3.0	4.5	1.3	1.1	1.25	1.15	1.0	1.4
22	4.4	8.0	7.0	4.3	3.0	14.6	.9	1.1	1.2	1.35	1.0	1.4
23	4.0	12.5	7.0	7.6	2.8	15.8	.9	1.1	1.25	1.15	1.1	1.3
24	3.8	14.2	6.5	10.8	3.0	11.6	1.2	1.05	1.35	1.1	1.0	1.3
25	3.8	14.6	6.0	11.0	3.0	8.5	.8	1.05	1.45	1.05	1.0	1.75
26	3.4	11.6	5.6	13.5	4.2	7.6	.8	1.05	1.25	1.05	1.1	2.4
27	3.1	9.2	5.3	11.4	4.8	6.1	.75	1.05	1.2	1.05	1.1	2.8
28	3.0	7.6	5.0	10.4	4.4	5.8	.7	1.05	1.05	.95	1.1	2.6
29	2.8	.....	4.7	9.1	4.0	5.9	.7	1.05	1.05	.95	1.1	2.4
30	2.6	.....	4.4	7.4	3.6	5.4	1.0	1.05	1.05	.95	1.1	2.3
31	2.6	.....	4.2	.....	3.4	.....	1.2	1.05	.....	.95	.....	2.0

Daily gage height, in feet, of Black Warrior River near Coal, Ala., for 1910.

Day.	Jan.	Feb.	Mar.	Apr.	May.	Day.	Jan.	Feb.	Mar.	Apr.	May.
1	1.65	2.5	9.4	1.9	1.7	16	2.65	2.55	3.0	1.7	1.4
2	1.6	2.5	9.3	1.9	1.7	17	2.45	2.8	3.0	2.1	2.1
3	1.6	2.4	9.55	1.8	1.7	18	2.4	10.05	3.0	3.45	2.85
4	1.85	2.4	7.75	1.8	1.6	19	2.4	10.35	2.9	4.0	2.0
5	1.5	2.4	6.25	1.9	2.25	20	2.7	7.25	3.3	3.55	2.6
6	7.5	2.3	5.5	1.9	2.5	21	4.1	6.3	3.7	3.05	5.9
7	11.0	2.15	4.95	2.0	2.4	22	5.75	7.0	3.55	2.55	9.7
8	9.25	2.0	4.45	2.0	2.4	23	5.45	6.5	2.5	2.25	9.15
9	6.0	2.0	4.05	2.0	2.3	24	4.35	6.1	2.4	2.2	7.7
10	4.85	2.0	4.0	2.0	2.2	25	3.75	5.85	2.3	2.1	8.05
11	4.0	2.0	4.8	1.9	2.1	26	3.55	5.4	2.3	2.0	8.25
12	3.55	2.35	4.95	1.9	2.0	27	3.4	4.95	2.2	1.9	6.1
13	3.15	2.8	4.35	1.8	1.7	28	3.4	8.25	2.1	1.8	4.75
14	3.0	2.75	3.9	1.8	1.5	29	3.15	.....	2.0	1.8	4.05
15	2.85	2.55	3.4	1.7	1.4	30	3.05	.....	2.0	1.8	3.45
						31	2.75	.....	1.9	.....	3.05

Daily discharge, in second-feet, of Black Warrior River near Coal, Ala., for 1909.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	3,400	2,750	11,800	5,860	23,700	6,330	6,570	2,750	640	462	350	405
2	2,930	2,400	10,900	5,400	24,100	8,870	5,860	2,750	830	350	350	405
3	2,570	2,230	17,300	4,960	15,100	34,900	4,530	3,120	765	350	360	405
4	3,130	2,230	12,900	4,740	8,070	66,500	3,310	4,960	640	350	360	405
5	7,060	2,230	10,000	4,110	7,810	59,700	1,310	4,320	520	350	350	405
6	18,100	4,110	8,600	3,700	7,810	40,500	1,030	3,900	462	350	350	405
7	20,100	5,630	12,600	6,810	6,090	18,500	1,030	3,500	462	360	350	1,520
8	10,900	4,740	20,100	15,800	5,400	11,200	895	3,500	462	380	350	3,500
9	8,070	4,740	20,500	14,000	4,530	8,870	2,400	2,400	462	350	350	3,900
10	7,060	31,700	58,100	8,870	4,320	10,900	3,500	1,080	580	350	350	2,400
11	6,090	34,500	51,700	7,060	4,320	15,100	2,570	1,380	580	350	350	1,750
12	5,180	20,100	50,100	8,070	4,320	12,900	1,600	1,170	580	350	350	1,380
13	4,740	22,900	84,500	14,700	4,320	10,300	1,600	1,170	580	350	350	1,080
14	13,600	42,100	107,000	22,500	4,320	9,700	2,230	1,030	462	350	350	2,070
15	16,600	52,500	102,000	10,200	3,500	10,600	1,450	895	462	350	350	1,750
16	22,900	52,100	74,100	11,500	2,750	8,870	1,310	765	462	350	350	1,750
17	20,500	42,100	37,300	8,870	3,700	7,060	1,600	640	462	462	850	1,600
18	13,600	28,100	22,100	7,310	4,740	5,400	1,170	640	462	702	405	1,380
19	10,000	22,100	18,100	6,090	3,700	4,740	895	580	520	640	405	1,030
20	8,600	22,100	16,200	5,400	4,110	4,530	765	520	462	580	405	1,030
21	7,310	15,800	14,300	4,740	3,500	6,810	765	520	702	580	405	895
22	6,570	18,100	14,300	6,330	3,500	44,800	295	520	640	830	405	895
23	5,630	40,100	14,300	16,600	3,120	49,300	295	520	702	580	520	765
24	5,180	42,900	12,600	29,300	3,500	32,800	640	462	1,520	520	405	765
25	5,180	44,500	10,900	30,100	3,500	20,100	190	462	962	462	405	1,380
26	4,320	32,500	9,700	40,100	6,090	16,600	190	462	702	462	520	2,400
27	3,700	22,900	8,870	31,700	7,560	11,200	140	462	640	462	520	3,120
28	3,500	16,600	8,070	27,700	6,570	10,300	90	462	462	350	520	2,750
29	3,120	.....	7,310	22,500	5,630	10,600	90	462	462	360	520	2,400
30	2,750	.....	6,570	15,800	4,740	9,140	405	462	462	350	520	2,220
31	2,750	.....	6,090	.....	4,320	.....	640	462	.....	350	.....	1,750

Daily discharge, in second-feet, of Black Warrior River near Coal, Ala., for 1910.

Day.	Jan.	Feb.	Mar.	Apr.	May.	Day.	Jan.	Feb.	Mar.	Apr.	May.
1	1,240	2,570	23,700	1,600	1,310	16	2,840	2,660	3,500	1,310	895
2	1,170	2,570	23,300	1,600	1,310	17	2,480	3,120	3,500	1,910	1,910
3	1,170	2,400	24,300	1,450	1,310	18	2,400	26,300	3,500	4,420	3,220
4	1,100	2,400	17,200	1,450	1,170	19	2,400	27,500	3,310	5,630	1,750
5	1,030	2,400	11,700	1,600	2,150	20	2,930	15,200	4,110	4,640	2,750
6	16,200	2,220	9,420	1,600	2,570	21	5,860	11,800	4,960	3,600	10,600
7	30,100	1,960	7,940	1,750	2,400	22	10,200	14,300	4,640	2,660	24,900
8	23,100	1,750	6,690	1,750	2,400	23	9,280	12,600	2,570	2,150	22,700
9	10,900	1,750	5,740	1,750	2,230	24	6,450	11,200	2,400	2,070	17,000
10	7,680	1,750	5,630	1,750	2,070	25	5,070	10,400	2,230	1,910	18,300
11	5,630	1,750	7,560	1,600	1,910	26	4,640	9,140	2,230	1,750	19,100
12	4,640	2,320	7,940	1,600	1,750	27	4,320	7,940	2,070	1,600	11,200
13	3,800	3,120	6,450	1,450	1,310	28	4,320	19,100	1,910	1,450	7,440
14	3,500	3,020	5,400	1,450	1,030	29	3,800	.....	1,750	1,450	5,740
15	3,220	2,660	4,320	1,310	895	30	3,600	.....	1,750	1,450	4,420
						31	3,020	.....	1,600	.....	3,600

NOTE.—These discharges were obtained from a rating curve which is well defined below 26,100 second-feet.

Monthly discharge of Black Warrior River near Coal, Ala.

[Drainage area, 3,560 square miles.]

Month.	Discharge in second-feet.				Run-off (depth in inches on drainage area).
	Maximum.	Minimum.	Mean.	Per square mile.	
1908					
September	1,680	190	378	0.106	0.12
October	295	140	222	.062	.07
November	295	190	222	.062	.07
December	41,400	405	8,500	2.39	2.76
1909					
January	22,900	2,750	8,250	2.32	2.68
February	52,500	2,230	22,700	6.38	6.64
March	107,000	6,090	27,700	7.78	8.97
April	40,100	3,700	13,600	3.82	4.26
May	24,100	2,750	6,410	1.80	2.08
June	66,500	4,530	18,900	5.31	5.92
July	6,570	90	1,590	.447	.52
August	4,960	462	1,510	.424	.49
September	1,520	462	604	.170	.19
October	830	350	432	.121	.14
November	520	350	397	.112	.12
December	8,900	405	1,570	.441	.51
The year	107,000	90	8,640	2.43	32.52
1910					
January	30,100	1,080	6,070	1.71	1.97
February	27,500	1,750	7,350	2.06	2.14
March	24,300	1,600	6,880	1.93	2.22
April	5,630	1,810	2,060	.579	.65
May	24,900	895	5,850	1.64	1.89

BLACK WARRIOR RIVER AT TUSCALOOSA, ALA.

Location.—The measuring station is at the highway bridge, one-fourth mile above the Mobile and Ohio Railroad bridge.

Records available.—Gage heights by U. S. Engineer Corps are continuous since 1889. Only a portion of record has been rated by discharge measurements.

Drainage area.—4,900 square miles.

Gage.—The original sloping gage was 1,800 feet below the bridge. Later the gage in use is the lower gage at the lock, a short distance above the bridge.

Channel.—Since the completion of the lock below, in 1902, the section has been too sluggish at low water for meter measurements.

Discharge measurements.—Made at the highway bridge.

Artificial control.—There is a great amount of artificial control at navigation locks above and below the station.

Accuracy.—The rating changed very greatly after the completion of the lock below in 1902, which raised the low water surface several feet, and made the section too sluggish for current meter measurements at extreme low water stages. No rating has been developed for the changed conditions, therefore discharge estimates have not been prepared for 1902-1905 although the gage heights are published for these years.

Discharge measurements of Black Warrior River at Tuscaloosa.

Date.	Gage height. Feet.	Discharge. Sec.-feet.
1895		
December 17	1.10	617
December 21	2.61	1,344
December 24	3.60	1,733
1896		
January 30	9.99	5,073
January 31	8.65	4,363
February 26	8.25	4,360
February 28	7.27	3,657
February 29	6.92	3,522
March 2	7.67	4,211
March 3	7.28	3,632
March 6	6.94	4,558
March 24	24.85	13,550
April 10	9.71	5,331
April 11	8.89	4,755
April 14	8.25	4,675
April 20	7.55	3,862
April 21	6.65	3,388
April 22	5.96	2,940
April 23	5.46	2,704
April 24	5.88	3,158
April 27	5.68	3,049
1897		
January 12	1.70	829
1899		
February 21	19.86	12,855
February 21	19.25	12,640
February 24	22.85	16,216
February 28	39.47	48,010
March 1	35.50	24,988
March 2	30.35	18,052
March 4	23.70	12,609
March 14	31.18	36,653
March 14	34.37	40,331
March 17	59.50	119,533
1899		
March 18	56.40	86,410
March 23	40.30	23,911
1901		
February 1	15.10	9,300
March 15	18.72	9,461
June 27	1.77	828
1903		
July 20	5.45	862
July 21	5.44	719
1904		
February 23	7.40	2,433
August 22	5.57	1,021
August 22	5.57	976
1905		
February 20	25.45	13,500
February 21	44.75	60,930
February 24	39.55	25,340
February 25	33.00	16,880
June 27	6.85	1,909
July 11	7.15	2,516

Daily gage height, in feet, of Black Warrior River at Tuscaloosa, Ala.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1889.												
1	15.00	23.50	18.80	8.50	8.80	2.30	2.40	3.70	0.75	2.40	0.90	6.00
2	19.50	20.60	16.50	9.80	14.50	2.90	3.10	3.60	7.30	1.95	1.05	5.65
3	18.00	17.50	25.00	10.30	13.20	2.75	4.40	3.00	6.40	1.85	1.85	5.30
4	16.00	14.80	31.50	11.60	11.00	2.50	5.10	2.95	5.30	1.30	1.90	4.80
5	25.00	13.00	29.40	10.50	8.50	2.30	6.25	2.90	6.20	1.15	2.85	4.50
6	33.00	11.50	26.50	9.50	7.00	2.10	6.85	2.70	9.30	1.05	3.65	4.20
7	33.50	10.40	23.00	8.40	6.80	1.90	6.45	2.45	14.90	.90	3.30	4.00
8	29.50	9.30	20.10	7.30	4.80	1.70	5.70	2.85	19.00	.70	3.00	3.80
9	26.80	8.30	17.50	6.80	4.20	2.00	4.75	2.60	14.00	.50	2.75	3.60
10	25.40	8.00	15.00	6.40	4.00	2.60	3.85	2.00	9.90	.40	2.65	3.40
11	29.00	7.80	12.80	6.20	3.80	2.85	3.05	1.75	6.50	.30	2.65	3.20
12	25.50	7.60	11.00	6.00	3.20	4.20	2.85	1.55	5.25	.30	4.30	2.95
13	22.50	7.30	10.00	5.80	3.00	3.40	2.45	3.85	4.15	.20	4.15	2.70
14	19.00	7.00	9.20	5.50	3.10	4.00	2.15	3.60	3.30	.15	3.75	2.70
15	16.00	7.30	8.80	8.00	3.20	3.45	1.95	3.35	2.70	.15	3.50	2.65
16	13.60	27.50	8.10	16.80	3.00	3.25	4.20	3.15	2.25	.15	4.20	2.50
17	29.00	49.00	7.20	16.70	2.80	3.05	7.35	3.80	2.00	.10	5.20	2.60
18	40.50	56.40	7.10	14.00	2.50	2.85	11.35	3.50	1.65	.10	12.45	2.30
19	38.50	56.60	11.00	12.00	2.35	2.65	11.50	3.20	1.40	.05	18.90	2.40
20	34.00	53.00	12.50	10.00	2.25	2.45	8.40	2.90	1.30	.05	16.90	2.05
21	30.80	47.00	12.30	8.90	2.05	2.25	4.60	2.40	1.20	.05	14.10	2.00
22	28.10	41.50	11.80	8.00	1.85	2.25	4.65	1.90	1.10	.00	11.70	2.80
23	26.00	36.50	10.80	7.00	1.65	3.45	4.50	1.50	1.00	— .10	9.70	2.60
24	23.10	32.50	10.00	6.40	1.50	3.20	3.70	1.20	1.00	— .30	7.90	2.60
25	21.00	28.50	9.80	6.30	1.30	3.00	3.15	.90	.95	— .15	6.60	1.95
26	20.40	26.50	11.20	6.80	1.25	2.40	3.10	.76	2.25	+ .10	6.20	1.65
27	28.00	23.50	11.80	6.50	1.15	1.95	4.55	1.00	3.70	.35	6.10	1.95
28	33.50	21.40	12.20	6.20	1.05	1.55	4.05	.95	3.50	.35	5.90	1.60
29	33.80	.....	11.00	5.80	.95	1.25	4.00	.90	3.25	.40	5.80	1.50
30	30.00	.. ....	10.50	5.50	1.15	1.10	4.00	1.10	2.80	.90	6.30	8.00
31	27.00	.. ....	9.80	.....	1.10	.....	3.80	1.05	.....	1.00	.....	4.35
1890.												
1	7.70	30.20	58.90	24.50	16.70	7.75	1.80	5.00	6.00	9.80	3.75	1.00
2	7.20	26.20	57.40	34.50	18.70	6.50	1.65	4.65	5.30	7.40	3.35	1.00
3	6.20	22.50	52.40	34.10	11.95	6.65	1.45	8.25	4.35	6.10	3.10	1.00
4	5.20	19.05	45.80	43.60	12.75	5.00	1.25	2.85	3.40	5.10	2.85	1.00
5	5.20	16.40	40.85	45.90	14.65	4.40	1.10	3.15	3.10	4.40	2.55	1.00
6	4.80	13.90	37.15	44.50	16.50	4.00	.80	3.35	3.85	3.80	2.40	1.00
7	4.50	12.10	36.40	38.70	15.00	5.20	.60	3.75	4.35	3.50	2.25	1.20
8	4.35	44.30	32.60	34.00	13.50	5.60	.50	4.55	4.80	3.45	2.15	10.05
9	5.10	53.95	30.50	29.95	11.95	5.40	.45	4.30	2.85	4.60	2.05	10.10
10	5.30	52.90	27.50	26.70	10.10	5.25	.30	4.30	3.20	4.45	2.00	8.95
11	5.60	47.50	25.00	23.45	9.30	5.00	.20	6.10	2.90	4.10	1.95	7.10
12	5.45	42.20	23.00	20.45	8.35	6.00	.15	6.40	3.45	3.80	1.75	5.80
13	5.30	37.20	20.75	17.45	8.25	6.20	.05	5.30	3.95	3.50	1.65	4.80
14	5.20	32.65	22.50	14.50	9.00	6.20	1.05	4.50	5.80	3.20	1.60	3.70
15	5.60	29.45	38.20	12.15	8.75	5.80	2.55	3.20	6.55	2.80	1.60	3.30
16	11.20	26.95	38.00	10.65	8.65	5.05	3.10	2.80	4.60	2.75	1.55	2.95
17	19.30	23.95	35.80	10.35	9.50	4.35	3.65	2.80	3.55	2.60	1.65	2.60
18	21.00	21.45	32.30	12.95	8.90	4.30	3.65	2.70	2.90	2.40	1.60	2.75
19	18.40	18.45	29.00	13.20	8.15	4.20	4.15	2.55	2.45	2.30	1.55	2.30
20	15.40	16.65	27.20	13.95	7.95	3.70	4.75	2.40	2.10	2.20	1.80	2.00
21	13.30	13.45	32.40	12.15	7.95	3.20	4.20	2.20	1.75	2.00	1.60	2.00
22	11.60	12.00	34.45	10.45	9.00	2.80	3.60	1.80	1.70	2.45	1.45	1.90
23	10.10	10.40	41.25	9.30	8.40	2.50	2.10	1.40	3.05	4.90	1.35	1.90
24	10.70	9.40	40.25	10.65	7.65	2.25	1.75	1.10	3.10	8.45	1.30	1.80
25	12.50	9.50	36.75	15.45	6.95	2.25	2.75	1.00	13.05	10.55	1.25	1.80
26	13.50	13.50	33.35	26.50	6.85	2.15	12.65	.95	28.90	9.60	1.20	2.30
27	12.80	35.20	29.70	28.45	9.60	2.55	18.40	.95	22.65	8.05	1.15	6.80
28	11.80	53.10	27.45	26.20	13.20	2.25	10.50	5.10	18.00	6.45	1.10	9.70
29	10.60	.....	24.55	23.35	18.55	2.05	9.30	9.55	14.70	5.30	1.05	10.20
30	17.60	.....	21.95	19.80	11.95	1.90	7.45	9.15	11.90	4.90	1.00	9.10
31	31.70	.....	18.80	.....	9.25	.....	6.60	10.45	.....	4.15	.....	7.30
1891.												
1	6.10	33.20	24.00	34.00	5.70	1.80	2.10	6.50	1.00	—0.40	—0.80	3.40
2	8.60	39.60	23.50	39.40	5.50	1.90	2.00	13.00	1.00	— .30	— .80	3.00
3	14.30	40.90	20.50	36.80	5.30	1.80	1.90	14.80	1.00	— .20	— .80	2.40
4	17.90	40.20	19.60	32.50	4.90	1.70	1.80	16.00	.80	— .20	— .80	6.20
5	15.20	39.30	17.20	28.50	4.50	1.50	1.50	18.00	.70	— .20	— .80	6.80
6	13.10	36.30	29.00	25.00	4.50	1.40	1.30	9.50	.60	— .20	— .80	21.50
7	11.10	37.00	53.00	22.20	4.20	1.40	1.40	7.40	.60	— .40	— .80	19.50
8	10.00	61.50	58.00	19.00	4.00	1.50	2.10	5.80	.60	— .50	— .80	20.00
9	9.50	51.50	60.40	16.00	3.90	2.10	7.00	5.40	.60	— .60	— .80	20.50
10	17.50	52.20	58.00	14.20	3.50	2.80	10.40	3.70	.60	— .70	+ .70	17.00
11	20.90	53.50	54.00	17.20	3.20	3.50	8.20	3.10	.70	— .80	2.10	14.00
12	26.30	50.50	48.00	27.00	3.20	10.20	6.00	2.70	1.00	— .80	2.80	11.50
13	30.10	47.60	43.00	26.00	3.10	10.50	4.80	2.50	1.20	— .80	4.40	9.00
14	25.50	51.40	40.00	22.50	3.00	9.80	3.60	3.00	1.20	— .80	3.80	8.20
15	21.00	49.50	36.50	19.50	2.80	8.00	2.80	3.40	1.00	— .60	2.50	7.00
16	18.50	46.50	33.20	17.20	2.60	6.50	2.60	4.00	1.00	— .70	2.40	9.00
17	17.10	44.30	30.00	15.60	2.50	5.60	2.60	3.00	.60	— .70	1.80	11.60
18	17.70	41.00	28.00	16.40	2.50	6.30	2.90	2.60	.20	— .70	1.80	11.20
19	17.10	37.50	26.40	14.50	2.50	7.20	2.50	2.20	10	— .60	1.50	10.00
20	15.60	35.00	24.00	13.40	2.50	7.00	2.20	2.00	10	— 70	1.30	8.50
21	12.60	33.50	21.00	12.00	2.50	6.00	1.80	1.50	10	— 70	1.40	7.00
22	20.20	39.50	19.90	11.00	2.70	5.50	1.60	1.50	10	— .60	3.00	6.00
23	31.60	41.00	17.50	10.00	3.00	5.20	1.40	1.40	10	— 60	8.00	6.00
24	31.80	39.00	15.00	9.00	3.00	4.80	1.30	1.30	10	— .50	12.30	6.20
25	30.10	36.50	12.50	8.20	2.80	4.50	1.40	1.20	00	— 50	13.30	7.50
26	30.70	33.00	12.10	7.60	2.60	4.20	2.60	1.10	00	+ 50	10.80	13.20
27	29.00	29.00	15.00	8.40	2.50	4.10	2.00	1.10	— 20	— 70	7.20	31.00
28	26.80	26.50	18.20	8.00	2.40	3.70	2.20	1.00	— 20	— 80	5.80	38.80
29	23.70	. .	19.40	7.30	2.30	2.90	2.00	1.00	— 40	— 80	4.20	31.20
30	32.70	. .	18.00	6.50	2.10	2.50	2.10	1.10	— .50	— .80	3.80	27.00
31	33.00	.....	17.00	. .	2.00	....	2.40	1.00	.....	— .80	.....	22.10

Daily gage height, in feet, of Black Warrior River at Tuscaloosa, Ala. —*Continued.*

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1892.												
1	17.90	21.20	10.70	21.80	12.00	3.40	4.60	4.80	9.30	3.90	0.40	5.90
2	15.90	10.50	10.30	18.30	11.20	3.20	3.90	3.20	7.60	3.50	.40	5.60
3	18.50	9.40	9.70	15.50	9.90	3.50	3.40	7.00	6.50	3.30	1.20	6.30
4	18.70	8.50	8.80	15.20	8.80	3.70	3.00	7.40	5.60	3.10	1.60	4.90
5	16.40	7.80	8.00	12.00	7.20	3.50	2.90	6.60	4.90	2.80	1.60	6.80
6	14.60	7.40	7.80	11.60	6.50	4.70	3.50	5.40	4.90	2.50	1.60	7.50
7	13.00	7.80	8.00	56.30	5.90	5.00	5.20	4.80	4.80	2.40	2.00	7.80
8	11.60	7.50	16.50	63.20	5.30	4.90	11.00	3.90	6.40	2.20	3.90	12.20
9	10.80	9.00	26.80	62.20	5.20	4.10	26.70	3.60	6.20	2.10	4.60	15.00
10	10.50	16.00	28.50	58.00	4.90	4.00	43.50	3.50	5.40	2.00	8.90	13.20
11	25.70	13.00	26.70	52.30	4.90	3.80	46.20	3.00	5.10	2.00	10.90	11.00
12	34.80	11.80	22.00	45.40	4.80	3.50	41.40	3.00	3.90	2.00	8.30	9.40
13	53.00	10.80	18.00	40.70	4.70	3.30	38.30	3.30	3.40	2.00	7.60	8.00
14	57.40	9.50	15.80	36.50	4.60	2.80	37.50	3.10	3.30	1.90	5.80	7.40
15	55.90	9.00	13.80	32.80	4.50	2.50	34.80	3.90	4.00	1.90	5.00	8.60
16	51.70	10.00	13.30	29.50	4.00	2.40	32.80	3.50	5.10	1.90	4.50	10.80
17	45.00	11.80	11.20	27.00	3.70	2.00	41.40	3.50	4.90	1.80	4.00	13.10
18	40.10	11.00	12.90	24.50	3.60	1.80	38.00	6.00	4.30	1.70	4.20	26.70
19	36.60	9.90	24.00	22.40	4.30	2.10	33.00	9.50	6.00	1.00	4.40	28.40
20	41.50	10.50	25.50	20.20	4.60	3.90	29.00	11.50	18.30	1.00	4.70	28.40
21	41.00	13.50	22.90	18.10	6.50	7.40	28.30	9.50	23.90	.90	5.00	36.50
22	86.80	18.00	20.00	15.90	6.30	10.80	29.30	7.40	20.90	.90	4.80	34.80
23	34.40	23.90	18.50	13.80	6.00	10.70	25.10	10.20	17.00	.90	4.50	31.50
24	31.00	21.20	22.00	12.30	6.00	8.40	21.50	12.30	13.80	1.00	4.20	27.00
25	28.50	18.50	29.00	11.30	4.80	7.80	18.80	14.00	10.50	1.00	3.80	23.00
26	26.00	16.00	32.00	10.50	3.50	7.90	15.80	14.20	8.00	.90	3.50	19.50
27	23.80	14.00	35.80	8.80	4.70	7.20	13.00	18.20	6.10	.80	3.30	16.00
28	21.50	12.50	34.00	7.90	4.00	6.10	10.50	11.50	5.00	.70	3.20	13.60
29	19.00	11.50	30.50	7.70	3.80	5.20	7.80	12.00	4.90	.70	3.90	11.40
30	16.80	.....	26.80	10.50	3.50	5.40	6.20	11.50	4.30	.50	5.90	9.80
31	14.00	.....	23.90	.....	3.50	.....	5.50	10.50	.....	.50	.....	8.50
1893												
1	8.20	18.10	23.00	9.40	24.50	12.50	2.50	0.60	0.30	1.10	0.40	1.50
2	8.60	15.90	21.70	9.30	21.20	33.50	2.30	.70	.20	1.00	.40	1.50
3	9.80	14.00	19.70	9.00	30.00	48.60	2.80	1.00	.10	1.20	.40	1.80
4	10.70	12.80	20.50	8.70	51.20	46.00	3.60	1.20	.00	1.40	.40	2.80
5	10.10	12.50	23.00	8.00	52.20	39.00	3.60	1.30	— .10	1.30	.40	3.50
6	9.00	11.80	24.00	8.70	48.00	37.70	3.20	1.20	— .10	1.20	.40	4.20
7	8.40	11.20	22.60	9.30	42.90	39.90	2.70	1.30	.00	1.20	.40	4.10
8	7.90	10.80	20.10	9.00	40.40	39.30	2.40	1.20	+ .20	1.20	.40	3.50
9	7.00	10.60	20.00	8.30	37.40	34.00	2.10	1.00	1.40	1.00	.40	3.00
10	6.70	10.20	22.00	7.60	34.30	29.20	1.80	.90	2.00	.90	.60	2.80
11	6.20	12.00	21.80	7.00	30.80	25.10	1.60	.90	2.10	.80	.60	2.80
12	6.50	23.90	20.50	6.40	27.50	21.20	1.60	.80	2.20	.80	.50	1.90
13	7.80	28.30	19.30	6.10	24.40	17.40	2.20	.90	3.20	.80	.50	1.70
14	9.00	27.00	18.10	5.80	21.90	14.70	2.60	3.60	4.30	.70	.60	1.60
15	9.60	25.90	16.80	23.00	19.10	11.60	2.40	4.90	4.30	.60	.60	1.50
16	11.40	52.20	14.70	27.10	16.20	9.60	2.00	5.10	3.90	.50	.60	1.70
17	12.20	55.60	13.20	24.00	14.00	7.60	1.70	4.70	3.30	.50	.60	2.30
18	11.80	54.70	12.20	20.00	11.90	6.70	1.40	3.70	2.50	.50	.60	2.40
19	12.00	51.40	11.30	16.40	11.00	6.50	1.30	2.80	2.10	.50	.60	2.30
20	12.40	46.50	10.70	13.90	8.40	6.90	1.20	2.20	1.80	.50	.60	2.10
21	11.80	41.80	9.90	12.00	6.90	6.90	1.20	1.70	1.40	.50	.70	2.50
22	10.90	37.90	9.30	11.20	6.20	6.60	1.30	1.50	1.30	.50	1.00	2.40
23	11.20	34.50	8.80	10.70	5.60	6.40	1.60	1.30	1.20	.40	1.00	2.30
24	12.90	31.30	12.30	9.90	5.10	5.70	1.70	1.10	1.00	.40	1.10	2.10
25	15.90	28.40	22.20	8.90	4.80	4.90	1.50	1.00	1.30	.40	1.00	1.90
26	19.20	25.90	22.50	7.00	4.50	4.40	1.30	.90	1.20	.40	.90	1.70
27	22.00	23.80	20.00	10.50	4.30	4.00	1.20	.80	1.20	.40	1.00	1.60
28	23.30	23.00	17.00	32.50	5.10	3.50	.90	.80	1.10	.40	1.70	1.50
29	23.10	.....	14.40	33.90	6.10	3.10	.90	.60	1.10	.40	1.70	1.40
30	22.10	.....	12.40	29.00	12.90	2.80	.80	.50	1.10	.40	1.50	3.70
31	20.40	.....	10.90	.....	14.10	.....	.80	.20	.....	.40	.....	7.60
1894												
1	10.30	8.50	27.00	11.40	6.50	1.70	2.50	1.20	5.80	0.55	—0.05	—0.05
2	9.60	7.80	25.60	14.10	5.90	1.60	1.80	1.30	4.60	.45	— .10	— .05
3	7.90	7.30	24.60	23.50	5.90	1.50	1.35	1.40	3.60	.40	— .20	— .00
4	6.20	7.90	21.00	24.00	5.80	1.35	1.10	1.95	2.95	.32	— .25	— .00
5	5.40	16.90	18.20	22.20	5.50	1.33	.80	2.30	2.45	.25	— .30	— .00
6	6.40	22.60	15.90	20.60	5.20	1.20	.60	2.40	2.05	.20	— .30	— .00
7	16.80	20.40	14.80	18.90	5.10	1.20	1.00	2.00	1.85	.15	— .30	— .00
8	22.60	17.80	14.40	16.30	4.90	1.10	1.30	1.60	1.75	.00	— .30	+ .05
9	19.70	17.30	13.80	14.70	4.50	.95	.70	1.30	1.65	— .10	— .30	.05
10	26.90	26.00	12.60	15.70	4.10	.90	.70	1.10	1.60	— .20	— .30	.50
11	34.50	27.80	11.60	25.00	3.70	.80	.60	.80	1.85	— .25	— .30	2.10
12	35.80	25.40	11.50	25.60	3.90	.80	.60	.70	3.40	— .30	— .30	5.70
13	30.90	29.90	16.50	22.70	4.80	.70	.50	.60	5.60	— .30	— .30	10.40
14	25.80	32.10	17.30	19.50	7.00	.60	.50	.50	7.50	— .30	— .15	11.20
15	22.20	29.70	15.80	16.30	6.20	.60	.60	.35	5.70	— .30	.00	8.90
16	23.60	26.00	15.50	15.50	5.70	.60	.70	.60	4.20	— .30	+ .05	6.40
17	24.80	22.30	33.10	16.00	5.10	.55	.75	.55	3.25	— .30	.05	4.90
18	22.40	19.10	38.70	17.00	5.00	.50	.70	.45	3.50	— .30	.05	3.90
19	19.30	16.80	33.70	25.30	4.70	.60	.70	.40	3.25	— .30	.00	3.20
20	15.90	16.00	29.50	24.80	4.20	.70	.60	.55	3.25	— .30	— .10	2.90
21	14.10	16.90	27.80	24.00	3.60	.85	.50	1.00	4.10	— .30	— .10	2.60
22	18.60	17.90	29.30	20.40	3.10	.80	.90	1.35	3.60	— .30	— .10	2.20
23	21.30	17.00	29.60	17.30	2.80	.95	1.30	3.80	2.90	— .30	— .10	2.00
24	19.90	16.10	28.00	14.20	2.60	1.10	1.35	5.30	2.20	— .35	.00	1.80
25	17.60	17.30	27.80	12.20	2.40	1.00	1.60	9.20	1.75	— .40	.00	1.70
26	15.50	29.30	25.30	10.50	2.30	1.05	1.50	16.00	1.45	— .40	.00	2.00
27	11.60	31.00	22.10	9.80	2.10	1.40	1.40	20.40	1.20	— .45	— .05	7.70
28	12.40	28.80	19.00	8.70	2.10	1.70	1.30	16.00	1.05	— .45	— .05	9.70
29	11.10	.....	16.10	7.90	2.00	2.35	.20	11.80	.90	— .45	— .05	8.40
30	10.00	.....	14.30	7.00	1.90	2.60	1.10	8.30	.70	— .20	— .05	7.20
31	9.10	.....	12.70	.....	1.90	.....	1.20	6.80	.....	— .05	— .05	6.50

Daily gage height, in feet, of Black Warrior River at Tuscaloosa, Ala. —Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1895												
1	6.10	24.10	8.60	16.20	15.20	7.00	4.80	1.80	1.90	0.10	−0.04	0.75
2	5.40	21.50	13.20	14.50	13.00	5.90	4.50	1.50	1.80	.00	+ .07	.95
3	6.80	21.40	35.30	12.60	11.00	5.10	5.40	1.30	1.80	− .07	.12	1.05
4	9.00	21.40	36.70	11.00	9.40	4.60	7.60	1.20	1.70	− .10	.09	1.00
5	8.80	19.90	32.40	10.20	8.30	4.20	17.40	1.20	1.90	− .10	.11	.90
6	8.00	17.90	27.80	8.40	7.40	6.70	17.70	1.20	2.60	− .10	.25	1.30
7	7.40	16.50	23.80	7.90	7.00	5.70	18.40	1.10	3.05	− .10	.31	1.50
8	35.00	16.80	20.60	20.50	8.20	5.10	15.70	1.00	3.70	− .00	.30	1.45
9	50.60	16.90	20.10	24.00	13.50	4.30	13.10	.90	3.40	− .03	.28	1.90
10	49.30	15.80	19.30	21.20	19.70	3.80	11.10	.97	2.90	− .07	.70	1.80
11	45.10	14.60	17.50	18.00	23.30	8.10	9.80	1.40	2.40	− .10	1.20	1.45
12	40.10	14.10	17.20	15.10	22.00	2.70	7.90	1.50	2.20	− .14	1.10	1.40
13	35.00	13.90	18.40	12.60	18.50	2.40	6.50	1.40	2.10	− .14	1.18	1.40
14	29.80	12.80	24.90	11.00	15.20	2.20	5.30	1.30	2.00	+ .06	1.35	1.37
15	25.70	11.60	37.50	9.50	12.20	2.00	5.40	1.10	1.80	− .04	1.35	1.33
16	23.40	10.60	47.40	8.60	9.70	2.00	5.60	1.30	1.60	− .08	1.28	1.29
17	31.20	9.40	52.00	10.00	8.00	2.70	5.90	1.40	1.40	− .18	1.20	1.12
18	32.90	9.00	47.30	15.90	6.90	3.30	5.80	2.00	1.40	− .27	1.05	1.05
19	29.20	9.00	42.10	15.80	6.30	4.20	5.10	4.00	1.30	− .31	.88	1.02
20	25.80	9.50	38.80	14.00	5.90	4.90	4.60	4.30	1.00	− .37	.82	1.57
21	23.10	10.20	48.70	12.00	5.30	4.70	4.00	3.60	1.20	− .42	.70	2.55
22	21.60	10.90	51.30	10.40	4.80	4.30	3.60	2.80	1.50	− .45	.60	2.60
23	21.60	11.40	47.60	8.90	4.30	4.10	3.40	2.40	1.30	− .50	.50	3.03
24	19.80	11.30	42.10	8.00	4.10	3.70	3.30	4.30	1.10	− .35	.75	3.65
25	17.40	10.90	37.30	7.20	4.00	3.40	3.60	4.90	.80	− .33	.60	3.31
26	16.70	10.30	32.80	7.00	4.30	3.00	3.70	4.00	.60	− .53	.38	4.50
27	20.00	9.70	29.10	7.10	5.60	4.40	3.30	3.20	.35	− .70	.64	10.40
28	21.20	9.00	26.10	12.60	11.00	5.40	2.90	2.40	.10	− .68	.55	21.02
29	22.00	.....	23.60	15.00	13.30	6.00	2.40	2.30	.50	− .67	.65	16.88
30	27.40	.....	21.10	16.40	11.20	5.40	2.00	2.10	.30	− .50	.60	13.10
31	27.10	.....	18.60	.....	8.90	.....	2.10	2.00	.....	− .32	.....	11.67
1896												
1	11.41	7.92	6.91	10.61	18.24	4.92	1.94	0.53	0.38	−0.52	−0.78	7.70
2	10.26	8.51	7.66	14.78	33.30	4.28	1.71	.80	.25	− .62	− .77	6.32
3	8.90	21.98	7.41	23.00	37.18	3.50	1.44	1.34	.15	− .66	− .42	4.63
4	7.60	33.12	6.74	23.50	30.88	5.41	1.48	.89	.05	− .20	− .39	3.40
5	6.55	30.02	6.14	19.85	26.40	5.24	1.30	.54	− .06	+ .78	− .33	2.60
6	5.74	30.75	6.64	16.70	21.93	4.30	1.15	.42	− .15	.74	− .19	2.05
7	5.09	35.92	10.18	14.26	17.88	3.62	1.32	.50	− .23	.68	− .19	1.29
8	5.24	35.06	12.04	12.55	13.95	3.27	2.20	.60	− .30	.40	− .17	1.47
9	5.76	36.21	14.89	11.20	10.80	6.60	8.40	.68	− .37	.09	− .18	1.21
10	6.46	36.52	13.69	10.02	8.60	8.18	6.98	.64	− .44	− .15	− .21	1.10
11	6.58	33.65	12.45	9.04	7.11	18.39	5.37	.55	− .44	− .28	− .30	.89
12	6.25	29.45	13.97	8.33	6.09	15.18	3.95	.45	− .46	− .28	− .20	.84
13	5.79	25.97	16.15	7.62	5.34	10.77	2.99	.38	− .50	− .48	− .22	.80
14	5.26	27.41	15.85	7.26	4.77	7.66	2.45	.35	− .60	− .49	− .11	.75
15	4.82	33.25	13.56	11.65	6.13	6.60	2.16	.31	− .59	− .46	− .10	1.20
16	4.67	31.02	13.86	13.90	5.45	4.33	2.13	.26	− .59	− .43	− .01	1.25
17	6.03	27.30	22.30	12.36	4.65	4.74	2.15	.13	− .60	− .60	+ .25	1.25
18	8.61	23.65	27.75	10.57	3.94	4.20	2.42	.40	− .60	− .63	.46	1.09
19	9.14	20.09	29.70	9.03	3.44	6.18	2.46	.50	− .60	− .78	.52	1.90
20	8.58	17.00	37.68	7.81	3.05	6.00	2.24	.40	− .61	− .82	.45	1.70
21	7.87	14.45	37.92	6.88	2.91	5.32	2.16	.34	− .64	− .82	.39	1.60
22	8.85	12.20	33.55	6.15	2.77	4.91	1.90	.29	− .64	− .84	.38	1.33
23	22.47	10.32	29.12	5.56	2.67	4.46	1.71	.22	− .36	− .84	.38	1.20
24	29.26	9.13	25.85	5.67	2.90	4.19	2.06	1.06	− .45	− .78	.37	.98
25	26.52	8.60	23.64	5.76	2.87	4.04	2.53	.95	− .61	− .80	.37	.92
26	22.44	8.35	21.28	5.80	2.97	3.37	2.17	.79	− .64	− .82	.37	.77
27	18.55	7.90	18.72	5.28	3.66	2.85	1.70	.77	− .71	− .82	.96	.71
28	14.92	7.40	16.85	10.47	3.59	2.69	1.28	1.35	− .76	− .78	.09	.59
29	12.14	7.00	14.30	16.06	6.52	2.54	.94	1.80	− .67	− .80	.33	.82
30	10.18	.....	12.69	14.18	6.50	2.21	.78	.95	− .56	− .80	1.00	.48
31	8.88	.....	11.40	.....	5.78	.....	.64	.60	.....	− .78	.....	.48
1897.												
1	0.34	8.90	11.14	13.90	9.51	1.83	−0.15	1.36	0.60	−1.65	−1.39	−1.28
2	.47	6.00	9.57	15.28	9.96	1.75	− .18	1.08	.96	−1.71	−1.30	−1.12
3	.40	11.50	8.58	22.20	9.22	1.70	− .20	.87	1.02	−1.72	−1.29	− .48
4	.90	12.60	8.72	21.11	7.66	2.01	− .18	.62	.92	−1.75	−1.31	+1.29
5	1.24	11.70	10.14	22.00	6.23	1.98	- .05	.50	.76	−1.79	−1.33	13.10
6	1.11	12.37	16.33	26.95	5.36	2.65	1.63	.40	.62	−1.86	−1.28	14.24
7	1.40	16.24	51.42	25.32	4.67	3.44	3.40	.25	.51	−1.79	−1.27	10.72
8	2.60	18.70	54.77	22.10	4.20	2.87	3.90	.24	.47	−1.85	−1.27	7.39
9	2.66	21.04	51.59	21.80	3.87	2.25	3.71	1.10	.42	−1.88	−1.17	5.12
10	2.30	19.80	44.69	29.27	3.50	1.85	3.05	2.10	.36	−1.90	−1.13	3.72
11	2.03	17.90	40.54	29.57	3.20	1.60	2.58	3.26	.29	−1.90	−1.10	3.05
12	1.76	23.42	42.53	25.48	3.64	1.39	2.42	3.22	.23	−1.88	−1.14	2.70
13	1.52	25.90	48.70	21.60	11.40	1.24	2.16	2.73	.14	−1.89	−1.17	2.56
14	1.33	23.84	50.96	18.10	20.36	1.11	1.86	2.27	.11	−1.92	−1.25	3.05
15	1.22	20.30	48.57	16.32	20.46	.96	1.46	1.63	.10	−1.92	−1.26	3.54
16	8.23	16.96	45.20	18.43	16.59	.86	1.16	1.28	.06	−1.92	−1.27	4.12
17	9.70	14.04	47.21	18.33	12.68	.76	.97	1.00	.01	−1.90	−1.33	4.10
18	13.10	11.72	46.72	25.92	9.77	.68	1.50	.78	− .05	−1.90	−1.35	3.78
19	19.85	9.97	42.90	13.66	7.73	1.30	8.50	.52	− .36	−1.90	−1.36	3.60
20	18.70	8.77	42.57	11.86	6.85	1.45	12.50	1.53	− .75	−1.88	−1.36	3.82
21	17.43	8.06	44.54	10.45	5.87	1.11	14.50	1.78	− .96	−1.88	−1.36	6.70
22	18.64	8.32	41.50	9.24	4.66	.80	11.30	1.56	−1.07	−1.77	−1.37	19.58
23	16.52	11.00	37.70	8.15	4.18	.56	8.42	1.33	−1.17	−1.64	−1.42	31.00
24	13.90	20.20	35.46	7.37	3.70	.33	6.64	1.06	−1.26	−1.58	−1.44	29.95
25	10.60	21.24	32.40	6.80	3.45	.23	4.77	1.27	−1.24	−1.63	−1.40	24.08
26	8.60	18.97	28.86	6.37	3.18	.16	3.46	.97	−1.36	−1.63	−1.36	18.97
27	7.20	16.18	25.60	5.90	2.90	.12	2.72	.80	−1.41	−1.64	−1.36	15.67
28	6.00	18.31	23.15	5.49	2.60	.03	2.92	.61	−1.44	−1.64	−1.28	13.10
29	5.10	.....	20.33	5.10	2.28	.00	2.15	.54	−1.50	−1.61	−1.22	11.00
30	4.42	.....	17.52	5.90	2.09	− .08	1.80	.46	−1.55	−1.63	−1.24	9.38
31	8.80	.....	14.98	.....	2.00	.....	1.62	.31	.....	−1.63	.....	8.00

Daily gage height, in feet, of Black Warrior River at Tuscaloosa, Ala. ***—Continued.***

Day	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov	Dec.
1898.												
1	7 10	21.68	3.67	25.50	11.34	0.23	0.66	2.45	1.20	−0.60	0.90	5.40
2	6.28	18.30	3.78	22.40	9.82	.08	.43	1.95	.82	− .70	.70	5.50
3	5.52	14.90	4.03	18.50	8.67	.23	.30	2.45	.70	− .80	.60	5.40
4	4.96	12.12	4.05	15.31	7.68	.27	.53	2.80	.30	− .90	.40	5.00
5	4.41	10.15	3.98	20.82	6.88	.27	.16	2.96	.00	−1.00	.00	4.70
6	4.17	9.42	3.90	38.70	6.20	.15	.10	3.90	− .10	− .90	.80	4.50
7	4.13	8.90	3.57	38.55	5.59	.02	− .15	3.40	− .30	− .90	.50	5.00
8	4.18	8.43	3.33	32.83	5.00	− .10	− .04	3.10	− .20	− .70	.40	5.00
9	4.17	7.84	3.12	27.70	4.50	− .29	− .04	3.98	.00	− .30	.40	4.70
10	3.97	7.30	3.00	23.04	4.20	− .41	+ .10	6.20	.20	+2.00	.60	4.20
11	4.00	6.68	2.90	19.50	3.91	− .54	.08	12.20	.40	3.30	.50	3.70
12	4.18	6.30	2.83	17.03	3.50	− .62	− .07	14.10	.20	2.60	.40	3.30
13	6.70	6.20	2.80	15.01	3.21	− .71	− .10	10.60	.00	2.00	.80	3.00
14	9.70	6.08	3.00	12.93	2.88	− .62	− .07	7.30	− .30	1.40	.80	2.80
15	11.97	5.86	4.80	11.65	2.58	− .53	− .11	5.00	− .30	1.00	1.10	2.60
16	11.71	5.40	8.00	10.78	2.30	− .38	− .07	3.50	− .40	.80	1.30	2.50
17	15.00	5.00	15.40	9.60	2.08	− .48	− .14	2.62	− .60	.40	1.50	2.40
18	15.53	4.90	14.10	8.03	1.97	− .56	.00	1.91	− .70	.80	1.60	2.10
19	14.32	4.83	11.92	8.15	1.64	− .30	1.24	1.50	− 70	.80	1.90	4.40
20	24.50	4.84	10.08	27.80	1.43	− .21	1.30	1.46	− .80	1.20	2.20	18.80
21	33.54	4.70	8.82	33.11	1.23	.00	1.12	1.12	− .90	3.10	2.50	23.90
22	31.42	4.48	7.80	28.45	1.07	.07	.84	1.26	− .50	3.80	4.00	21.30
23	28.50	4.30	6.96	23.77	1.00	.18	.47	1.30	− .60	4.10	8.60	17.40
24	30.38	4.00	6.30	20.72	.93	.30	1.18	.90	− .70	4.40	11.70	13.50
25	30.12	3.83	6.00	24.01	.78	.17	1.95	.50	− .80	4.30	11.60	10.58
26	42.50	3.64	5.90	22.62	.57	.06	2.50	1.10	− .90	3.90	9.50	8.60
27	43.48	3.56	5.53	19.67	.43	1.30	2.00	1.02	− .90	2.90	7 40	7.30
28	39.41	3.72	5.12	17.12	.44	1.10	1.80	.98	− .80	2.30	5.90	6.20
29	33.80	.....	5.23	15.05	.52	.48	2.03	1.30	− .80	2.00	5.50	5.60
30	28.50	.....	13.40	13.03	.44	.68	2.55	1.52	− .60	1.40	5.30	5.00
31	24.90	.....	25.68	.....	.30	.....	2.96	1.56	.....	1.10		4.70
1899.												
1	4.40	26.10	37.70	30.30	7.90	2.00	.10	6.50	1.20	−1.50	−1.03	4.83
2	4.50	29.50	32.00	29.20	7.00	1.50	.80	4.90	.70	−1.61	−1.02	3.50
3	4.60	27.00	27.70	24.80	6.30	1.20	.30	3.40	.62	−1.80	−1.03	2.77
4	4.70	29.00	24.10	22.00	5.80	1.00	− .70	2.70	.23	−1.79	− .99	2.03
5	4.70	45.50	21.00	23.20	5.30	1.00	− .10	2.00	− .02	−1.51	−1.00	1.50
6	11.20	50.60	20.80	22.60	4.80	.90	− .30	1.90	− .17	−1.48	−1.02	1.22
7	42.50	51.40	19.50	23.30	4.40	1.00	− .20	1.80	− .38	−1.46	−1.03	.98
8	49.30	51.70	16.90	33.90	4.40	.80	− .30	1.30	− .40	−1.34	−1.03	.88
9	46.60	48.60	14.40	34.00	7.60	.40	− .40	1.20	− .46	−1.30	−1.03	.58
10	40.40	43.10	12.90	30.80	6.50	.40	− .40	1.10	− .68	− .96	−1.01	.60
11	33.70	37.80	11.90	27.00	5.10	.50	− .40	2.00	− .73	− .78	−1.01	2.20
12	31.90	32.80	11.30	23.60	4.30	.50	− .50	1.70	− .79	− .72	− .98	23.50
13	28.00	28.80	10.00	20.10	4.20	.50	− .60	1.30	− .71	− .70	− .96	39.53
14	25.00	25.70	28.80	17.20	4.30	.50	− .60	.90	− .73	− .88	− .98	35.71
15	22.20	22.90	44.50	14.90	4.70	.60	− .70	.60	− .78	− .94	− .99	28.50
16	20.00	21.60	59.30	13.00	4.30	.70	− .70	.40	− .83	−1.03	−1.00	20.63
17	19.60	19.90	60.30	11.60	3.70	.60	− .70	.30	− .86	−1.07	− .97	13.21
18	20.10	20.10	57.70	10.50	3.30	.40	− .70	.30	− .88	−1.12	− .97	10.83
19	18.60	20.90	52.40	9.80	2.80	.30	− .70	.60	− .90	−1.16	− .95	8.02
20	16.10	20.60	49.30	9.60	2.70	.20	− .70	.60	− .92	−1.12	− .95	8.09
21	14.00	19.60	46.80	9.50	3.70	.10	− .60	.70	− .94	−1.10	− .92	9.63
22	12.20	18.50	41.60	8.70	3.80	.40	− .50	1.50	− .99	− .84	− .89	10.40
23	11.00	22.70	36.80	8.60	3.30	− .10	− .20	2.60	−1.03	− .73	− .33	10.63
24	11.00	23.10	33.00	11.30	3.10	− .10	+ .60	2.50	−1.05	− 71	+ 17	22.01
25	20.30	20.90	29.50	13.60	2.70	− .60	4.90	2.60	−1.04	− .88	.88	29.04
26	29.30	18.50	26.50	13.20	2.30	+ .20	7.60	2.30	−1.05	− .94	2.60	25.91
27	26.20	23.30	24.20	12.60	2.00	.20	7.40	2.10	−1.04	−1.02	4.50	20.98
28	22.50	39.00	22.30	11.40	1.75	.30	7.90	1.90	−1.18	− .60	10.48	17.09
29	18.60	.....	21.10	10.00	1.50	.20	9.50	1.60	−1.28	− .73	9.49	15.80
30	15.70	.....	19.30	8.90	1.60	. .10	9.30	1.50	−1.38	− .96	6.67	14.62
31	14.80	.....	18.10	.....	2.50	.....	8.60	1.10	.....	−1.03	.....	12.51
1900.												
1	10.90	6.92	18.14	21.55	21.23	4.24	41.00	2.85	5.50	0.75	4.20	12.50
2	9.48	6.40	25.44	18.60	18.95	5.30	33.88	8.00	6.00	.80	5.10	9.65
3	8.32	5.90	26.00	15.80	16.43	13.95	32.27	6.50	4.07	.60	5.40	8.50
4	7.10	5.71	23.30	13.60	13.82	15.16	32.13	5.15	4.30	.25	5.55	7.90
5	6.18	6.40	20.29	12.27	11.60	20.98	30.96	4.10	3.58	.40	6.05	8.20
6	5.53	9.58	17.43	12.17	9.60	21.50	27.31	3.80	2.80	.40	4.45	10.20
7	5.12	11.50	15.34	11.44	8.20	20.92	23.70	3.35	2.30	.80	3.90	10.65
8	4.84	10.53	27.58	10.29	7.28	21.75	20.80	3.00	1.90	1.80	3.50	9.65
9	4.60	12.23	39.00	9.97	6.80	38.52	18.45	2.50	1.50	3.90	3.10	8.75
10	4.50	20.60	36.03	10.58	6.50	31.70	15.96	2.30	1.40	6.05	2.90	8.15
11	7.12	23.00	31.63	26.35	6.12	24.75	12.96	2.10	1.10	6.10	2.70	7.50
12	31.63	20.64	27.34	52.79	5.90	19.60	11.05	.90	.90	14.30	2.50	6.80
13	31.80	41.37	23.78	55.40	5.48	15.95	10.60	1.75	.80	22.50	2.40	6.45
14	28.18	47.98	20.43	48.09	4.98	15.60	12.90	1.50	1.40	21.85	2.25	6.40
15	24.09	45.73	17.40	42.30	4.50	19.23	10.35	1.40	5.45	16.40	2.20	6.65
16	20.12	40.23	16.63	37.10	3.85	29.15	8.50	1.50	10.65	11.60	2.10	6.45
17	16.50	34.74	21.18	63.00	3.65	28.80	7.00	1.48	8.95	8.20	2.05	6.10
18	14.28	29.75	20.28	64.05	3.50	25.33	6.00	1.40	6.34	6.13	2.00	5.75
19	15.80	25.88	18.80	62.17	3.52	24.51	5.60	3.00	4.44	5.10	1.95	5.30
20	25.08	22.43	45.10	59.35	3.39	30.10	6.35	4.40	3.35	4.30	3.90	5.45
21	32.60	19.90	51.00	56.10	3.65	27.80	8.50	3.75	2.60	3.60	8.40	6.30
22	29.44	23.58	47.98	51.71	3.50	25.38	8.00	3.00	2.20	3.15	10.25	8.35
23	24.54	26.50	42.40	46.20	3.35	24.55	8.10	2.50	1.87	4.60	12.50	11.90
24	20.43	24.20	38.24	41.88	4.40	50.00	8.70	2.55	1.65	7.30	11.00	17.00
25	17.12	22.38	35.41	37.94	7.55	58.35	7.40	2.10	1.60	10.40	9.45	18.70
26	14.12	21.00	36.78	33.94	7.68	56.35	6.80	4.48	1.45	8.55	15.90	17.00
27	12.14	18.63	35.33	30.89	6.70	52.90	9.20	4.30	1.30	6.75	22.20	14.60
28	10.47	16.52	31.80	28.16	5.30	49.05	16.20	3.25	1.05	5.40	21.00	12.50
29	9.10	.....	28.85	25.73	4.25	48.35	13.50	2.40	.90	4.70	17.35	10.95
30	8.27	.....	26.25	23.50	3.60	46.35	11.83	2.10	.75	4.10	14.00	10.15
31	7 60	.....	24.20	.....	3.62	.....	11.05	2.50	.....	3.70	.....	14.20

Daily gage height, in feet, of Black Warrior River at Tuscaloosa, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1901.												
1	19.50	15.10	7.50	28.00	9.40	6.50	1.70	0.70	6.11	5.40	0.85	1.60
2	19.00	14.80	7.30	26.50	8.50	12.25	1.73	.60	5.10	6.91	.80	1.50
3	17.90	15.00	8.40	32.60	7.90	16.65	2.00	.85	4.05	9.00	.75	1.40
4	14.70	35.20	9.65	35.10	7.30	14.80	2.30	1.00	6.60	6.72	1.00	1.40
5	13.00	42.00	9.70	31.50	7.00	12.00	2.50	.80	3.05	5.30	1.10	1.31
6	14.50	38.35	9.50	27.50	6.35	11.20	2.30	.75	2.81	4.50	1.10	1.95
7	10.25	32.15	9.00	24.30	6.15	11.10	2.50	.60	2.35	3.45	1.05	1.90
8	9.50	29.15	8.50	20.90	6.00	11.50	2.40	.50	2.04	3.02	1.00	2.58
9	8.75	28.05	8.05	17.90	5.70	9.40	2.25	.35	1.90	2.50	.95	2.60
10	8.30	30.97	8.70	14.50	5.60	7.60	2.10	.25	1.70	2.31	.90	3.80
11	17.40	29.75	29.50	12.50	5.00	6.50	2.00	.20	1.50	2.10	.90	5.00
12	52.70	27.45	34.00	11.00	4.60	6.20	1.70	.65	1.41	1.95	.85	5.80
13	66.50	25.15	28.50	10.00	5.00	6.40	1.30	.65	1.30	3.41	1.00	5.70
14	53.25	22.50	23.50	11.35	6.60	5.50	.90	.80	2.82	3.30	1.05	7.40
15	47.25	19.60	19.70	12.80	8.70	5.05	.70	1.20	6.70	3.97	1.00	31.00
16	41.45	17.45	16.00	13.00	8.30	4.80	.60	5.70	8.00	3.80	.98	40.75
17	36.30	15.70	13.00	11.70	6.80	4.50	.43	17.00	6.10	3.51	.90	35.00
18	31.85	13.70	11.05	12.80	5.50	4.10	2.60	26.30	12.21	3.00	.93	27.00
19	28.15	12.50	10.00	25.70	4.70	3.80	4.00	22.70	16.00	2.70	1.10	21.50
20	25.15	11.90	9.60	39.80	4.90	3.35	5.70	25.70	14.50	2.30	1.30	16.41
21	22.50	10.90	13.00	42.60	8.30	3.00	7.33	32.10	10.60	2.00	1.40	12.10
22	19.85	9.95	16.50	38.00	17.30	2.75	6.00	32.50	7.50	1.81	1.70	9.95
23	17.55	9.20	15.70	32.80	19.80	2.80	4.50	31.97	5.70	1.61	2.00	7.00
24	15.35	8.75	14.00	28.41	17.50	2.20	3.20	26.80	4.51	1.45	2.05	6.80
25	14.60	8.65	13.80	24.40	14.10	2.00	2.50	22.40	3.90	1.31	2.00	7.30
26	16.00	8.50	28.50	21.00	11.30	1.97	2.00	18.30	3.40	1.20	1.95	8.34
27	17.20	8.20	37.25	17.90	9.30	1.85	1.50	14.10	2.91	1.05	1.95	9.00
28	15.50	7.90	34.50	14.90	8.15	1.70	1.05	9.85	2.60	.81	2.00	10.96
29	14.80	.....	29.00	12.50	7.00	1.65	.90	7.90	2.91	.66	1.95	86.30
30	15.10	.....	24.30	10.90	6.90	1.65	.80	7.41	4.80	.90	1.91	49.00
31	14.66	.....	24.85	.....	6.35	.....	.60	7.10	.....	.90	.....	49.00
1902.												
1	44.00	27.80	49.87	52.88	10.85	1.52	0.35	0.04	2.52	5.61	4.90	8.50
2	38.80	47.50	48.10	45.50	9.90	2.48	.30	.05	2.20	5.50	4.89	9.50
3	34.10	48.40	44.00	39.70	8.32	1.40	.15	.08	2.85	5.00	4.89	13.55
4	28.50	45.00	37.50	35.00	6.51	1.52	.00	.15	4.87	5.50	4.90	17.10
5	24.80	40.00	33.50	32.00	5.50	1.40	.00	1.80	4.65	5.52	4.91	17.92
6	21.15	36.00	35.78	29.00	5.00	1.30	.03	2.30	3.50	5.31	4.94	15.65
7	15.50	31.00	35.00	26.91	4.75	1.25	.05	1.90	2.52	5.15	5.00	14.90
8	14.00	28.15	31.61	32.70	5.11	1.15	.05	1.35	2.00	5.00	4.94	13.40
9	12.50	24.38	28.50	35.75	5.15	1.10	.15	.81	1.60	4.95	4.94	11.75
10	11.00	21.50	25.51	32.81	4.75	1.05	.20	.09	1.32	4.90	4.89	10.25
11	9.30	18.00	23.10	29.05	4.35	1.00	.25	.49	1.12	9.65	4.89	9.10
12	8.50	15.40	20.40	26.00	4.05	.91	.25	.48	.85	15.40	4.90	8.50
13	8.00	13.00	17.70	23.32	3.75	.80	.15	.39	.71	14.90	4.90	8.06
14	7.30	11.00	15.52	20.61	3.52	.72	.15	.25	.50	11.75	4.91	7.85
15	6.70	11.50	15.00	18.00	3.15	.70	.10	.18	.40	8.98	4.90	7.45
16	6.11	19.85	17.50	15.82	3.50	.65	.10	.15	.25	7.45	4.89	15.00
17	5.65	21.81	31.80	14.41	6.01	.53	.05	.14	.15	6.40	4.90	29.65
18	5.00	19.70	29.60	12.93	6.52	.50	.05	.10	.12	6.00	5.25	28.85
19	6.05	17.55	25.00	11.85	6.10	.80	.04	.08	.75	5.83	5.50	23.90
20	7.81	16.00	21.30	10.57	5.31	1.00	.03	.05	2.21	5.75	5.54	19.15
21	11.00	14.51	18.50	9.61	4.55	1.60	.03	.04	3.51	5.60	5.50	16.30
22	16.15	14.00	17.65	8.80	3.90	1.70	.04	.10	3.92	5.60	5.50	18.00
23	20.81	13.60	15.21	8.05	3.50	1.72	.04	.12	4.30	5.52	5.45	20.30
24	20.81	13.05	13.80	7.72	3.05	1.80	.10	.15	4.50	5.45	5.42	18.10
25	18.50	12.50	18.30	7.30	2.82	1.85	.11	.10	4.75	5.35	5.69	15.41
26	16.85	13.00	19.00	7.05	2.75	1.50	.10	.08	4.83	5.29	6.75	13.50
27	15.50	14.00	35.50	6.72	2.35	1.10	.11	.15	4.90	5.00	13.90	12.00
28	20.00	41.61	60.35	6.41	2.03	.65	.07	.61	5.20	4.90	13.40	10.95
29	28.00	.....	60.60	5.90	1.95	.40	.05	1.45	5.08	4.91	10.42	10.00
30	27.87	.....	58.30	5.75	1.81	.40	.05	1.68	5.65	4.90	9.65	11.10
31	28.50	.....	57.40	.....	1.65	.....	.04	1.98	.....	4.92	.....	12.81
1903.												
1	13.20	13.35	54.30	16.70	8.50	9.60	6.43	6.95	5.10	3.98	5.03	4.71
2	13.75	12.56	52.41	16.65	8.15	12.50	5.90	7.40	5.15	3.95	5.17	4.72
3	16.58	13.75	47.25	15.30	7.90	14.21	5.65	8.55	5.00	3.80	5.68	4.78
4	23.30	18.35	41.42	14.12	7.75	12.35	5.44	7.65	4.91	3.75	5.55	4.84
5	22.52	35.00	36.90	13.10	7.45	12.40	5.80	6.95	4.80	3.65	5.21	4.85
6	19.81	37.85	33.11	12.30	7.15	13.35	6.35	6.50	4.73	3.98	5.04	4.87
7	17.10	36.00	37.82	11.50	6.92	16.83	6.15	6.80	4.55	4.20	4.98	4.88
8	15.11	56.35	36.50	11.15	6.89	16.50	5.90	6.72	4.45	4.70	4.90	4.86
9	13.31	50.85	39.15	12.30	7.00	12.20	5.75	6.55	4.40	4.75	4.88	4.88
10	12.10	51.50	39.20	22.35	6.90	10.50	6.50	6.10	4.42	4.90	4.84	4.89
11	12.53	52.00	37.75	20.10	6.75	10.85	6.25	6.35	4.31	4.97	4.80	4.90
12	23.95	53.75	35.12	16.50	7.05	11.00	6.35	6.15	4.25	5.10	4.87	4.92
13	28.41	51.10	33.80	14.35	8.65	10.35	6.52	6.10	4.21	5.15	4.91	4.87
14	25.75	46.15	36.15	21.20	14.35	9.45	6.70	6.00	4.19	4.95	4.87	4.85
15	21.90	41.11	36.00	32.15	34.85	8.30	6.55	5.95	4.13	4.92	4.92	4.87
16	19.01	40.50	33.84	28.20	43.40	7.65	6.25	6.25	4.10	4.93	4.97	4.86
17	16.11	56.65	31.12	23.40	43.10	7.08	5.90	6.60	4.00	4.98	4.95	4.86
18	14.50	56.75	28.65	18.35	37.10	6.70	5.81	6.85	4.03	5.01	4.91	4.84
19	12.51	52.95	26.15	16.00	30.65	6.45	5.70	7.82	4.08	4.99	4.90	4.80
20	11.85	46.75	23.50	14.50	25.80	6.20	5.45	7.60	4.03	4.98	4.88	4.92
21	11.05	41.35	20.85	14.90	21.55	6.23	5.10	6.91	3.98	4.90	4.86	5.05
22	10.84	36.80	18.90	17.95	17.60	7.20	5.05	6.55	3.94	4.85	4.80	5.28
23	9.98	32.30	17.55	15.90	13.85	6.95	4.75	6.10	3.90	4.76	4.78	5.15
24	9.51	28.85	16.15	13.81	11.10	6.75	4.70	5.65	3.89	4.65	4.75	5.48
25	8.65	26.10	14.80	12.30	9.80	6.83	4.83	5.45	3.86	4.60	4.73	5.60
26	8.25	23.95	13.48	11.30	9.00	7.80	4.90	5.25	3.80	4.50	4.75	5.61
27	8.05	22.00	12.40	10.50	8.35	7.52	4.80	5.15	3.75	4.50	4.74	5.39
28	9.85	45.42	11.85	10.00	7.80	7.15	4.65	5.05	3.70	4.60	4.75	5.15
29	12.35	.....	11.62	9.45	7.45	6.91	7.85	4.95	3.81	4.68	4.73	5.12
30	14.72	.....	11.78	8.95	7.15	6.55	4.75	5.35	3.96	4.76	4.70	5.09
31	14.56	.....	13.50	.....	7.32	.....	6.50	5.15	.....	4.81	.....	5.07

Daily gage height, in feet, of Black Warrior River at Tuscaloosa, Ala.—Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1	5.02	6.40	6.57	13.06	6.85	5.10	8.15	5.29	4.90	4.38	4.12	.....
2	5.00	6.35	6.42	12.20	6.75	6.40	9.80	5.29	4.93	4.35	4.12	.....
3	5.03	6.40	6.40	12.25	6.40	6.91	8.10	5.55	4.82	4.36	4.23	.....
4	5.01	6.37	6.31	12.10	6.21	6.50	6.91	6.53	4.78	4.38	4.70	.....
5	4.98	6.30	6.23	11.05	5.98	6.01	6.63	6.89	4.60	4.40	4.70	.....
6	4.95	6.23	6.05	10.10	5.85	5.53	5.90	6.70	4.80	4.40	4.61	.....
7	5.06	6.30	9.30	9.91	5.64	5.50	5.45	7.32	4.87	4.29	4.66	.....
8	5.18	6.70	15.75	12.30	5.53	5.45	5.40	9.50	4.90	4.30	4.83	.....
9	5.10	7.68	17.50	18.48	5.42	5.35	6.00	9.90	4.85	4.29	4.75	.....
10	5.41	8.75	15.25	20.55	5.98	5.30	7.98	9.73	4.90	4.29	4.66	.....
11	5.32	11.05	12.94	18.13	6.17	5.31	7.71	8.17	4.80	4.30	4.65	.....
12	5.51	12.16	11.07	15.00	6.08	5.30	7.02	8.39	4.71	4.35	4.55	.....
13	5.40	10.73	10.21	13.13	5.95	5.28	7.22	10.30	4.70	4.33	4.48	.....
14	5.28	9.55	10.85	11.45	5.80	5.20	9.00	10.55	4.69	4.33	4.40	.....
15	5.15	8.70	17.60	10.20	5.63	5.10	8.82	9.24	4.65	4.33	4.36	.....
16	5.08	8.07	22.24	8.50	5.40	5.10	7.40	8.40	4.60	4.33	4.34	.....
17	5.32	7.53	19.00	8.45	5.21	5.00	7.00	7.52	4.50	4.15	4.30	.....
18	5.60	7.10	15.34	8.35	5.18	4.80	6.90	6.92	4.50	4.15	4.25	.....
19	5.50	6.80	13.10	8.15	5.10	4.70	5.50	6.87	4.50	4.15	4.30	.....
20	5.49	6.80	11.73	7.80	5.08	4.62	5.31	6.44	4.46	4.17	4.25	.....
21	5.50	7.05	10.71	7.45	5.06	4.60	5.23	6.16	4.45	4.17	4.27	.....
22	6.70	7.35	9.86	7.15	5.00	4.43	4.70	5.59	4.44	4.16	4.70	.....
23	11.68	7.45	9.25	7.09	5.00	4.30	5.10	5.33	4.43	4.15	4.71	.....
24	12.70	7.36	9.40	7.01	4.98	4.21	5.38	5.14	4.40	4.15	4.70	.....
25	11.15	7.31	14.00	7.40	4.95	3.98	5.60	5.08	4.40	4.15	4.59	.....
26	9.48	7.23	15.40	7.41	4.91	3.85	5.75	4.80	4.38	4.15	4.55	.....
27	8.20	7.12	14.71	7.20	4.88	4.54	5.40	4.84	4.35	4.15	4.57	.....
28	7.40	6.84	13.50	7.18	4.86	4.88	5.38	4.90	4.34	4.15	4.54	.....
29	6.90	6.71	20.60	7.15	4.80	4.80	5.40	4.98	4.40	4.15	4.44	.....
30	6.65	.....	17.85	7.10	4.81	4.75	5.12	5.15	4.40	4.14	4.25	.....
31	6.40	.....	15.03	.....	4.95	.....	5.24	4.78	.....	4.13	.....	.....
1905												
1	12.1	19.2	21.4	9.41	15.75	9.15	15.35	6.25	7.6	5.0	6.15	5.72
2	10.11	17.1	18.59	8.95	16.5	8.95	12.8	6.35	6.7	4.9	5.92	5.9
3	9.55	15.1	15.8	8.68	15.02	8.2	12.25	6.55	8.75	4.9	5.8	6.55
4	8.4	13.75	13.5	8.4	13.3	7.05	10.75	6.2	15.3	5.0	5.7	7.65
5	7.9	13.15	12.0	8.5	11.35	6.58	8.75	5.85	18.05	4.95	5.5	9.7
6	7.75	31.8	11.3	8.75	10.68	6.25	7.53	5.62	14.0	4.92	5.45	10.45
7	7.65	40.4	10.65	8.9	10.4	5.95	7.25	5.45	10.7	5.2	5.35	9.55
8	8.6	40.0	10.35	8.95	12.35	5.8	7.15	5.55	8.75	5.5	5.3	8.8
9	9.25	55.35	10.4	15.5	18.0	5.65	7.35	5.25	7.65	5.5	5.2	8.35
10	9.1	56.9	15.1	13.2	16.8	5.1	7.0	5.2	6.95	5.4	5.3	9.1
11	10.05	54.45	27.12	11.1	14.35	5.08	7.02	6.35	6.45	5.42	5.3	10.15
12	20.8	48.98	23.6	9.85	12.35	5.06	9.5	6.9	6.2	5.65	5.75	10.0
13	45.6	44.75	19.3	9.3	10.81	5.04	12.25	9.45	6.2	8.4	6.78	9.35
14	46.07	42.98	16.21	9.0	10.11	5.0	11.75	10.65	6.45	8.25	7.0	8.9
15	40.2	39.35	13.85	8.5	9.8	5.4	9.6	9.8	6.65	7.35	6.72	9.1
16	33.51	35.25	12.45	8.6	9.7	5.35	8.0	9.65	6.6	6.75	6.4	10.3
17	27.6	31.59	11.42	8.6	9.91	5.4	6.9	9.25	6.2	6.65	6.22	16.1
18	23.31	28.68	10.82	8.4	10.02	6.35	6.25	11.25	5.8	7.7	6.03	16.2
19	19.5	26.45	10.15	8.21	11.75	7.4	5.9	11.0	5.55	7.72	5.9	14.5
20	16.4	25.0	10.2	7.85	9.8	6.4	5.6	10.15	5.4	7.2	5.82	13.12
21	15.1	39.98	14.5	7.65	9.2	6.11	5.41	13.3	5.3	6.65	5.75	13.02
22	14.02	47.65	21.05	7.72	9.95	5.75	5.25	16.85	5.25	6.23	5.6	17.8
23	12.7	45.2	21.62	8.05	13.15	5.35	5.1	9.7	5.8	5.9	6.0	21.15
24	11.65	39.9	18.8	8.32	15.82	7.25	5.25	8.75	5.6	5.72	5.9	20.9
25	11.2	34.9	16.2	8.15	14.81	6.9	6.42	8.5	5.4	5.6	5.8	22.6
26	10.1	30.5	14.35	9.13	14.6	7.28	9.35	15.55	5.3	5.6	5.72	20.6
27	9.7	27.05	13.35	10.88	14.51	6.98	8.75	23.0	5.15	5.9	5.6	17.6
28	9.1	24.2	12.03	13.4	20.2	6.7	7.4	17.4	5.3	6.25	5.61	15.35
29	8.5	.....	11.2	13.81	16.0	7.8	6.58	12.5	4.95	7.0	5.7	15.15
30	12.15	.....	10.53	13.25	12.51	14.45	6.22	9.65	4.9	6.75	5.8	15.15
31	19.1	.....	9.95	.....	10.5	.....	6.17	8.1	.....	6.45	.....	16.7

Rating table for Black Warrior River at Tuscaloosa, Ala., from 1895 to 1901.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
—2.0	88	3.8	1,890	16.0	8,660	21.5	12,050
—1.8	92	4.0	2,000	16.2	8,760	21.6	12,140
—1.6	100	4.2	2,111	16.3	8,810	21.7	12,230
—1.4	110	4.4	2,222	16.4	8,860	21.8	12,320
—1.2	120	4.6	2,333	16.5	8,920	22.0	12,500
—1.0	130	4.8	2,444	16.6	8,980	22.2	12,700
— .8	150	5.0	2,555	16.7	9,040	22.3	12,800
— .6	175	5.2	2,666	16.8	9,100	22.4	12,900
— .4	205	5.4	2,777	17.0	9,215	22.5	13,000
— .2	240	5.6	2,888	17.2	9,315	22.6	13,100
.0	280	5.8	3,000	17.3	9,365	22.7	13,200
.1	310	6.0	3,110	17.4	9,415	22.8	13,300
.2	340	6.2	3,210	17.5	9,475	23.0	13,500
.3	370	6.4	3,310	17.6	9,535	23.2	13,740
.4	400	6.6	3,430	17.7	9,595	23.3	13,860
.5	430	6.8	3,550	17.8	9,655	23.4	13,980
.6	460	7.0	3,665	18.0	9,770	23.5	14,100
.7	490	7.2	3,765	18.2	9,870	23.6	14,220
.8	530	7.4	3,865	18.3	9,920	23.7	14,340
.9	565	7.6	3,985	18.4	9,970	23.8	14,460
1.0	600	7.8	4,105	18.5	10,030	24.0	14,700
1.1	635	8.0	4,220	18.6	10,090	24.2	14,960
1.2	670	8.2	4,320	18.7	10,150	24.3	15,090
1.3	710	8.4	4,420	18.8	10,210	24.4	15,200
1.4	750	8.6	4,540	19.0	10,325	24.5	15,350
1.5	790	8.8	4,660	19.2	10,425	24.6	15,480
1.6	830	9.0	4,775	19.3	10,475	24.7	15,610
1.7	870	9.2	4,875	19.4	10,525	24.8	15,740
1.8	910	9.4	4,975	19.5	10,585	25.0	16,000
1.9	955	9.6	5,095	19.6	10,645	26.0	17,600
2.0	1,000	9.8	5,215	19.7	10,705	28.0	21,500
2.1	1,045	10.0	5,330	19.8	10,765	30.0	26,500
2.2	1,090	11.0	5,885	20.0	10,880	32.0	31 700
2.3	1,135	12.0	6,440	20.2	11,020	34.0	38,000
2.4	1,180	13.0	6,995	20.3	11,090	36.0	45,000
2.5	1,225	14.0	7,550	20.4	11,160	38.0	53,000
2.6	1,270	15.0	8,105	20.5	11,230	40.0	61,000
2.7	1,320	15.2	8,205	20.6	11,305	42.0	69,000
2.8	1,370	15.3	8,255	20.7	11,380	44.0	77,000
2.9	1,420	15.4	8,305	20.8	11,455	46.0	85,000
3.0	1,470	15.5	8,365	21.0	11,600	48.0	93,000
3.2	1,570	15.6	8,425	21.2	11,780	50.0	101,000
3.4	1,670	15.7	8,485	21.3	11,870	52.0	109,000
3.6	1,780	15.8	8,545	21.4	11,960	54.0	117,000
						55.0	121,000

Estimated monthly discharge of Black Warrior River at Tuscaloosa, Ala.

[Drainage area, 4,900 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Second-feet per square mile.	Depth in inches.
1895.					
January	103,400	2,777	25,464	5.20	6.00
February	14,830	4,775	7,603	1.55	1.61
March	109,000	4,540	39,977	8.16	9.42
April	14,700	3,665	6,895	1.41	1.57
May	13,860	2,000	5,511	1.12	1.29
June	3,665	1,000	2,133	.44	.49
July	9,970	1,000	3,581	.73	.84
August	2,500	565	1,098	.22	.25
September	1,835	310	883	.18	.20
October	310	140	233	.05	.06
November	750	280	488	.10	.11
December	11,600	530	2,021	.41	.47
The year	109,000	140	7,991	1.63	22.31
1896.					
January	24,610	2,444	5,981	1.22	1.41
February	47,000	3,665	19,161	3.91	4.22
March	52,600	3,160	12,996	2.65	3.06
April	14,100	2,721	6,072	1.24	1.38
May	49,800	1,370	7,420	1.51	1.74
June	9,970	1,090	2,910	.59	.65
July	4,420	460	1,232	.25	.29
August	750	310	478	.10	.12
September	400	120	201	.04	.04
October	260	120	157	.03	.03
November	600	120	307	.06	.07
December	4,045	430	955	.19	.22
The year	52,600	120	4,822	.98	13.23

Estimated monthly discharge of Black Warrior River at Tuscaloosa, Ala.—Continued.

[Drainage area, 4,900 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Second-feet per square mile.	Depth in inches.
1897.					
January	10,500	385	3,493	0.71	0.82
February	17,440	1,945	8,409	1.72	1.79
March	120,080	4,540	52,883	10.79	12.44
April	25,285	2,610	9,657	1.97	2.20
May	11,195	1,000	3,600	.73	.84
June	1,697	260	715	.15	.17
July	7,810	240	1,809	.37	.43
August	1,595	355	701	.14	.16
September	600	102	295	.06	.07
October	102	90	93	.02	.02
November	125	107	115	.02	.03
December	29,000	115	5,549	1.13	1.30
The year	120,080	90	7,277	1.48	20.27
1898.					
January	75,000	1,972	16,577	3.38	3.90
February	12,230	1,752	3,902	.80	.83
March	17,120	1,370	3,626	.74	.85
April	55,800	4,295	15,620	3.19	3.56
May	6,060	370	1,766	.36	.41
June	710	160	303	.06	.07
July	1,395	250	549	.11	.13
August	7,600	430	1,785	.36	.41
September	670	140	252	.05	.06
October	2,444	130	880	.18	.21
November	6,265	280	1,626	.33	.37
December	14,580	1,045	3,763	.77	.89
The year	75,000	130	4,221	.86	11.69

Estimated monthly discharge of Black Warrior River at Tuscaloosa, Ala. ***—Continued.***

[Drainage area, 4,900 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Second-feet per square mile.	Depth in inches.
1899.					
January	81,375	2,222	18,118	3.70	4.27
February	90,375	10,030	30,923	6.31	6.57
March	122,625	5,330	35,308	7.21	8.31
April	32,800	4,540	11,901	2.43	2.71
May	4,165	790	2,092	.43	.49
June	1,000	175	448	.09	.10
July	5,035	160	1,111	.25	.26
August	3,370	370	963	.20	.23
September	670	110	200	.04	.04
October	175	92	130	.03	.03
November	5,590	127	721	.15	.17
December	47,650	460	8,880	1.81	2.09
The year	122,625	92	9,233	1.89	25.27
1900.					
January	29,760	2,277	9,857	2.01	2.32
February	76,312	2,555	18,356	3.75	3.90
March	87,750	8,280	27,105	5.53	6.37
April	136,687	5,302	48,426	9.88	11.02
May	11,825	1,645	3,702	.76	.88
June	115,312	2,138	32,614	6.66	7.43
July	52,000	2,888	10,952	2.24	2.59
August	5,245	750	1,674	.34	.39
September	5,680	512	1,580	.32	.36
October	13,000	355	3,382	.69	.80
November	12,700	977	3,701	.76	.85
December	10,150	2,721	5,119	1.05	1.21
The year	136,687	355	13,872	2.83	38.12
1901.					
January	108,375	4,370	22,938	4.68	5.39
February	55,100	4,165	15,094	3.08	3.21
March	40,900	3,815	11,947	2.44	2.81
April	57,020	5,330	17,370	3.55	3.96
May	10,765	2,333	4,355	.89	1.03
June	9,010	850	3,217	.66	.74
July	3,815	415	1,210	.25	.29
August	29,550	340	7,117	1.45	1.67
September	8,660	710	2,626	.54	.60
October	4,775	445	1,536	.31	36
November	1,022	512	712	15	17
December	80,250	710	13,293	2.71	3.12
The year	108,375	340	8,454	1 73	23.35

CLEAR CREEK AT ELK, ALA.

Location.—At the wagon bridge one mile south of Elk, Ala.
Records available.—June 22, 1904, to December 31, 1905.
Drainage area.—Not determined.
Gage.—Vertical rod bolted to the Bridge pier.
Channel.—Good, but sluggish at lowest water.
Discharge measurement.—Made from the bridge.
Artificial control.—Probably none.
Accuracy—Is considered good.

Discharge measurements of Clear Creek near Elk, Ala.

Date.	Gage height. Feet.	Discharge. Sec.-feet.	Date.	Gage height. Feet.	Discharge. Sec.-feet.
1904			October 25	.65	17
May 24	0.79	39	1905		
June 22	.66	15	January 28	0.97	106
August 9	.81	47	January 28	.95	104
October 25	.65	17			

Mean daily gage height, in feet, of Clear Creek near Elk, Ala.

	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1904							
1	.....	0.80	0.75	0.85	0.65	0.65	0.90
2	.....	.80	.75	.70	.65	.65	1.00
3	.....	.80	.80	.70	.65	.80	1.00
4	.....	.80	1.10	.70	.65	.80	1.30
5	.....	.90	.95	.70	.65	.75	1.60
6	.....	.90	.95	.65	.70	.75	1.60
7	.....	.95	.90	.65	.70	.75	1.50
8	.....	1.00	1.10	.70	.70	.75	1.20
9	.....	1.10	.80	.70	.70	.80	.90
10	.....	1.00	.80	.70	.65	.90	.90
11	.....	.90	.75	.70	.65	.80	.90
12	.....	1.10	.80	.65	.65	.75	.90
13	.....	1.10	.80	.65	.65	.70	.85
14	.....	.90	1.00	.65	.60	.70	.85
15	.....	.90	1.00	.65	.60	.70	.80
16	.....	.90	1.00	.60	.60	.70	.75
17	.....	.85	1.00	.60	.60	.70	.75
18	.....	.85	1.10	.60	.60	.70	.75
19	.....	.85	1.00	.60	.60	.70	.75
20	.....	.85	1.00	.60	.60	.70	.75
21	.....	.95	1.00	.65	.60	.70	.75
22	.....	1.60	1.00	.60	.60	.75	.75
23	0.65	1.20	.90	.60	.60	.80	.75
24	.65	1.10	.90	.65	.60	.80	.75
25	.65	1.00	1.00	.65	.60	.85	.80
26	.70	.95	1.00	.65	.60	.85	.85
27	.80	.95	.90	.70	.60	.85	1.80
28	.80	.95	.90	.65	.60	.85	1.70
29	2.60	.80	.90	.70	.60	.90	1.65
30	1.20	.80	.90	.70	.60	.90	1.40
31	.....	.80	.85	.....	.60	.....	1.20

Daily gage height, in feet, of Clear Creek near Elk, Ala.—Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1905												
1	1.0	1.8	1.8	1.1	1.6	1.0	1.1	0.9	0.8	0.8	1.0	1.0
2	1.0	1.8	1.2	1.1	1.4	.9	.9	.9	1.9	.8	1.0	1.0
3	.9	1.2	1.2	1.1	1.8	.9	.9	.9	1.4	.9	1.0	1.1
4	.9	1.2	1.2	1.1	1.2	.9	1.0	.8	1.8	.9	1.0	1.1
5	.9	1.5	1.2	1.1	1.2	.9	1.2	.8	1.1	.9	1.0	1.0
6	.9	2.7	1.2	1.1	1.2	.9	1.0	.8	1.0	.9	.9	1.0
7	.9	2.2	1.1	1.1	1.5	.9	.9	.8	1.0	.8	.9	1.0
8	1.1	3.8	1.0	1.1	1.4	.8	1.0	.8	.9	.8	.9	1.1
9	1.0	4.6	3.3	1.1	1.3	.8	.9	.8	.9	.8	.9	1.1
10	1.1	2.5	3.0	1.1	1.2	.8	.9	.8	.9	1.1	1.4	1.1
11	1.6	2.1	2.4	1.0	1.2	.8	1.3	.8	.9	1.8	1.3	1.1
12	3.1	1.9	1.8	1.0	1.1	.8	1.2	.8	1.0	1.6	1.2	1.0
13	2.3	1.9	1.5	1.0	1.3	.8	1.1	1.1	1.0	1.3	1.1	1.0
14	1.8	1.8	1.4	1.0	1.1	.8	1.0	1.1	.9	1.1	1.1	1.1
15	1.5	1.7	1.4	1.0	1.1	.9	.9	1.1	.9	1.1	1.1	1.6
16	1.3	1.6	1.3	1.2	1.1	1.1	.9	1.1	.9	1.4	1.1	1.8
17	1.3	1.5	1.3	1.1	1.1	1.0	.9	1.3	.8	1.3	1.0	1.7
18	1.2	1.4	1.2	1.0	1.1	1.1	.9	1.0	.8	1.1	1.0	1.5
19	1.2	1.4	1.3	1.0	1.0	1.0	.8	1.0	1.4	1.1	1.0	1.4
20	1.3	5.2	1.3	1.0	1.0	.9	.8	1.0	1.1	1.1	1.0	1.4
21	1.2	3.3	1.8	1.0	1.0	.9	.8	1.0	1.1	1.0	1.0	1.8
22	1.2	2.3	1.6	1.2	1.2	.9	.8	1.0	1.0	1.0	1.0	1.6
23	1.1	2.0	1.4	1.1	1.1	1.0	.7	1.0	1.0	1.0	1.0	1.9
24	1.1	1.8	1.4	1.1	1.2	.9	.9	.9	.9	1.0	.9	1.9
25	1.1	1.7	1.3	1.1	1.2	.9	1.7	1.0	.9	1.0	1.0	1.6
26	1.0	1.6	1.3	1.3	1.1	.9	1.2	1.0	.8	1.3	1.0	1.5
27	1.0	1.5	1.3	1.3	1.1	.9	1.0	1.0	.8	1.2	1.0	1.5
28	.9	1.4	1.2	1.2	1.0	.9	.9	.9	.8	1.1	1.0	1.4
29	1.0	.....	1.2	1.1	1.0	.9	.9	.9	.8	1.1	1.0	1.4
30	1.5	.....	1.2	1.8	1.0	.9	.9	.9	.8	1.1	1.0	1.3
31	1.4	.....	1.1	.....	1.0	.....	.9	.9	.....	1.0	.....	1.3

Station rating table for Clear Creek near Elk, Ala., for 1904 and 1905.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
0.60	12	0.80	44	1.00	128	1.10	188
.70	24	.90	76				

The above table is based on seven discharge measurements made during 1904-5. It is fairly well defined. The above table covers the low-water period.

LOCUST FORK, BLACK WARRIOR RIVER, PALOS, ALA.

Location.—At the bridge of the Kansas City, Memphis, and Birmingham Railroad.

Records available.—January 1, 1902, to December 31, 1905.

Drainage area.—1,020 square miles.

Gage.—Sloping timber gage.

Channel.—Channel conditions are changing requiring numerous changes in rating.

Discharge measurements.—Made from Drennan bridge which is property of Drennan Coal Mining Co., one-fourth mile below the railroad bridge. Some measurements have been made from the railroad bridge and others from boats at better sections.

Artificial control.—There is probably none.

Accuracy.—Most of the conditions are rather poor for accuracy and on this account, the station was discontinued at the end of 1905.

Discharge measurements of Locust Fork of Black Warrior River at Palos, Ala.

Date.	Gage height. Feet.	Discharge. Sec.-feet.	Date.	Gage height. Feet.	Discharge. Sec.-feet.
1902			1904		
January 18	0.85	849	January 18	.88	151
April 5	2.50	3,224	March 24	1.58	1,680
April 5	2.50	3,292	May 23	.16	86
September 20	.00	117	May 23	.16	91
October 15	.60	473	August 8	1.27	1,156
1903			August 8	1.25	1,132
March 7	4.75	7,450	October 24	— .04	24
March 14	3.55	5,342	1905		
May 20	1.75	2,148	February 27	2.02	2,205
June 16	.62	431	February 27	1.98	2,465
June 16	.62	404	June 15	.72	484
July 18	.40	228	August 10	.50	291
August 28	.13	84	August 10	.50	304
August 28	.13	98	September 26	.80	129
September 26	.02	47			

Daily gage height, in feet, of Locust Fork of Black Warrior River at Palos, Ala.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1902.												
1	5.60	8.30	13.30	4.90	0.90	0.20	0.10	0.40	0.10	0.10	0.00	1.10
2	3.40	12.80	6.70	3.50	.80	.20	.10	.30	.00	.10	.00	1.10
3	2.70	10.20	4.40	2.70	.70	.20	.10	.30	.00	.10	.00	1.90
4	2.20	5.70	3.00	2.60	.70	.20	.10	.90	.00	.10	.00	1.90
5	2.00	3.90	5.00	2.50	.60	.20	.10	.30	.00	.10	.00	1.70
6	1.70	3.00	5.30	2.30	.60	.20	.00	.20	.00	.10	.00	1.60
7	1.60	2.40	3.70	2.10	.50	.20	.00	.10	.00	.10	.00	1.50
8	1.50	2.00	3.00	5.80	.50	.20	.00	.10	.00	.00	.00	1.20
9	1.30	1.80	2.50	5.00	.50	.20	.10	.10	.00	.00	.00	1.00
10	1.30	1.70	2.10	3.40	.50	.20	.10	.00	.00	.00	.00	.90
11	1.20	1.60	1.90	2.60	.40	.10	.10	.00	.00	1.70	.00	.80
12	1.10	1.50	1.70	2.20	.40	.10	.10	.00	.00	2.00	.00	.70
13	1.10	1.40	1.60	2.00	.40	.10	.10	.00	.00	1.80	.00	.70
14	1.00	1.30	1.60	1.80	.40	.10	.10	.00	.00	.80	.00	.60
15	.90	2.20	1.50	1.70	.40	.10	.10	.00	.00	.60	.00	.60
16	.90	2.80	3.40	1.60	.30	.10	.00	.00	.00	.40	.00	3.10
17	.90	2.20	4.50	1.50	.60	.10	.00	.00	.00	.40	.80	3.30
18	.90	2.00	3.00	1.50	.50	.10	.00	.00	.00	.30	.20	2.40
19	1.00	1.80	2.30	1.40	.50	.10	.00	.00	.00	.20	.20	1.90
20	1.10	1.70	2.00	1.30	.40	.10	.00	.00	.00	.20	.20	1.50
21	1.60	1.60	1.80	1.10	.40	.10	.10	.00	.00	.10	.20	1.60
22	2.50	1.60	1.70	1.00	.40	.10	.10	.00	.00	.10	.20	2.50
23	2.40	1.50	1.60	1.00	.40	.10	.00	.00	.00	.10	.20	2.20
24	2.30	1.50	1.50	.90	.30	.10	.00	.00	.00	.00	.10	1.80
25	2.40	1.80	1.90	.90	.30	.10	.00	.00	.00	.00	.20	1.50
26	1.90	1.60	1.70	.90	.30	.10	.00	.00	.00	.00	1.10	1.30
27	1.80	2.20	6.30	.80	.30	.10	.00	.00	.00	.00	1.40	1.10
28	2.10	14.90	24.00	.80	.20	.10	.10	.00	.10	.00	1.10	1.00
29	3.10	.....	27.00	.70	.20	.20	.10	.10	.00	.00	.80	1.00
30	3.30	.....	25.00	1.20	.20	.20	.20	.10	.10	.00	.60	1.20
31	3.60	.....	17.90	.....	.20	.....	.50	.10	.....	.00	.....	1.40
1903.												
1	1.20	1.10	17.00	2.60	.90	1.20	.4	.70	.40	.00	.20	.10
2	1.30	1.10	7.40	2.20	.90	2.10	.4	1.00	.30	.00	.20	.10
3	1.50	1.60	4.20	1.90	.80	1.40	.4	.70	.20	.00	.20	.10
4	1.50	3.30	3.20	1.70	.80	1.20	.8	.90	.10	.00	.10	.10
5	1.60	7.60	2.80	1.60	.80	1.10	.8	.80	.10	.00	.10	.10
6	1.50	4.80	4.60	1.50	.70	1.00	.7	.60	.10	.00	.10	.10
7	1.40	4.30	5.20	1.40	.70	1.40	.6	.50	.10	.00	.10	.10
8	1.30	18.10	3.80	1.50	.70	1.20	.6	.40	.10	.00	.00	.10
9	1.20	12.20	4.30	4.00	.60	1.10	.5	.40	.00	.40	.00	.10
10	1.00	16.40	3.50	3.70	.60	1.10	.5	.40	.00	.30	.00	.10
11	1.50	12.60	3.80	2.20	.60	1.50	.5	.40	.00	.20	.20	.10
12	3.20	12.50	2.80	1.80	.60	1.10	.4	.80	.00	.20	.30	.10
13	2.70	6.60	2.50	1.80	.70	1.00	.5	.30	.00	.10	.30	.10
14	2.00	4.40	3.60	10.20	1.00	.80	.8	.30	.00	.10	.30	.10
15	1.70	4.20	3.70	7.20	5.80	.70	.9	.60	.00	.00	.20	.10
16	1.60	7.50	3.10	3.80	11.90	.60	.7	.80	.00	.00	.10	.10
17	1.40	23.00	2.60	2.60	5.70	.60	.5	.70	.00	.00	.10	.10
18	1.40	18.10	2.30	2.10	3.00	.60	.4	.70	.00	.00	.10	.10
19	1.20	7.40	2.00	1.90	2.10	.60	.3	.70	.00	.00	.10	.10
20	1.10	4.20	1.80	1.90	1.80	.50	.3	.60	.00	.00	.10	.20
21	1.10	3.10	1.70	2.50	1.50	.50	.2	.60	.00	.00	.10	.10
22	1.00	2.60	1.70	2.00	1.30	.40	.2	.60	.00	.00	.10	.10
23	1.00	2.20	1.80	1.70	1.20	.50	.2	.40	.60	.00	.10	.10
24	.90	2.00	1.70	1.50	1.10	.40	.2	.30	.00	.00	.10	.10
25	.90	1.80	1.60	1.40	1.00	.40	.2	.30	.00	.00	.10	.10
26	.90	1.70	1.50	1.30	.90	.40	.2	.20	.00	.00	.10	.20
27	.80	1.60	1.40	1.20	.80	.50	.2	.20	.00	.00	.10	.20
28	.80	20.00	1.30	1.10	.70	.50	.1	.10	.00	.00	.10	.20
29	1.25	.....	1.30	1.00	.70	.50	.1	.10	.00	.00	.10	.20
30	1.30	.....	1.40	1.00	.80	.50	.1	.10	.00	.00	.10	.20
31	1.20	.....	2.70	.....	.90	.....	.3	.10	.....	.30	.....	.20

Daily gage height, in feet, of Black Warrior River (Locust Fork) at Palos, Ala.—Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1904												
1	0.2	0.6	0.7	1.2	0.7	0.7	1.4	0.4	0.3	0.0	0.0	0.2
2	.2	.6	.7	1.2	.7	.8	.9	.4	.3	.0	.0	.3
3	.2	.5	.6	1.1	.6	.7	.5	.7	.3	.0	.2	.4
4	.1	.5	.6	1.1	.6	.5	.7	.6	.2	.0	.4	.6
5	.1	.5	.6	1.0	.5	.4	.5	1.0	.2	.0	.4	.1
6	.1	.5	.6	.9	.5	.4	.3	1.4	.2	.0	.3	1.4
7	.1	.6	1.9	1.2	.4	.3	.6	1.6	.2	.4	.2	1.3
8	.1	1.1	2.2	2.1	.7	.3	2.1	1.3	.1	.3	.2	1.1
9	.1	1.6	1.9	2.5	.7	.3	1.3	1.0	.1	.2	.2	1.9
10	.2	1.4	1.5	2.1	.6	.2	1.0	.8	.1	.1	.1	.9
11	.2	1.5	1.3	1.7	.7	.2	.8	1.3	.1	.1	.1	.8
12	.2	1.3	1.3	1.4	.6	.2	1.1	2.5	.1	.0	.1	.7
13	.2	1.3	1.3	1.3	.5	.2	1.2	2.1	.1	.0	.1	.7
14	.2	1.2	2.2	1.1	.4	.1	1.2	1.6	.0	.0	.1	.7
15	.2	1.0	5.0	1.0	.4	.1	.8	1.2	.0	.0	.1	.6
16	.2	.8	2.9	.9	.3	.1	.6	1.0	.0	.0	.1	.6
17	.3	.8	2.0	.9	.3	.0	.5	1.3	.0	.0	.1	.6
18	.4	.7	1.7	.9	.3	.0	.4	.9	.0	.0	.1	.5
19	.4	.7	1.5	.9	.2	.0	.4	.8	.0	.0	.1	.5
20	.4	.8	1.3	.8	.2	.0	.3	. .6	.0	.0	.1	.5
21	.4	.8	1.2	.8	.2	.0	.3	.5	.0	.0	.1	.5
22	.6	.9	1.1	.8	.2	.0	.2	.4	.0	.0	.1	.4
23	1.3	.9	1.1	.8	.2	.0	.4	.4	.0	.0	.3	.4
24	2.3	.9	1.5	.7	.2	.0	.3	.4	.0	.0	.3	.4
25	1.1	.9	1.5	.7	.2	.6	.3	.3	.0	.0	.2	.3
26	.9	.8	1.3	.8	.2	.4	.3	.3	.0	.0	.2	.9
27	.8	.8	1.4	1.2	.1	.2	.4	1.0	.0	.0	.2	1.1
28	.7	.8	1.7	1.1	.1	.1	.4	.7	.0	.0	.2	2.9
29	.7	.7	1.6	.9	.1	.4	.5	1.0	.0	.0	.2	2.5
30	.6	.....	1.4	.8	.2	1.8	.3	.7	.0	.0	.2	1.7
31	.6	.....	1.3	.....	.5	.....	.2	.5	.....	.0	.....	1.3
1905												
1	1.1	1.7	1.9	1.0	1.4	1.1	2.0	0.7	0.7	0.2	0.5	0.8
2	1.0	1.6	1.9	.9	1.4	1.0	1.8	.7	.9	.2	.4	.8
3	1.0	1.4	1.8	.9	1.2	.9	2.0	.7	1.4	.2	.4	1.2
4	.9	1.3	1.6	.8	1.1	.8	1.4	.6	1.8	.4	.4	1.6
5	.9	1.4	1.4	.9	1.1	.7	1.1	.5	1.4	.9	.4	2.0
6	.8	6.9	1.3	1.0	1.0	.7	1.0	.4	1.0	.9	.4	1.9
7	1.0	5.0	1.2	1.0	1.2	.6	1.0	.3	.9	.3	.4	1.8
8	1.2	5.8	1.1	1.1	1.7	.6	1.2	.3	.5	.3	.4	1.8
9	1.1	20.9	1.2	1.0	1.8	.5	1.0	.2	.6	.9	.4	2.1
10	1.1	19.0	1.3	.9	1.5	.5	.9	.5	.6	.9	.5	1.7
11	1.6	10.1	1.4	.9	1.2	.4	1.7	.5	.5	.9	.7	1.7
12	5.2	5.0	1.3	.9	1.1	.4	3.3	.6	.7	.3	.3	1.6
13	12.1	5.0	1.2	.8	1.1	.4	2.5	1.0	.7	.7	.9	1.3
14	7.2	4.9	1.1	.8	1.1	.5	1.7	1.5	.7	.6	.7	1.1
15	4.1	4.2	1.1	.8	1.0	.7	1.3	1.0	.6	.7	.7	1.3
16	2.6	3.5	1.0	.9	1.6	1.5	1.0	1.7	.6	.3	.7	1.7
17	2.0	2.9	1.0	.9	2.5	1.1	.9	1.5	.5	.9	.6	1.9
18	1.7	2.6	.9	.8	2.0	.9	.8	1.1	.5	.9	.6	1.6
19	1.6	2.0	.9	.8	1.6	.8	.7	1.0	.4	.3	.6	1.3
20	1.7	3.5	1.0	.7	1.3	.7	.8	1.0	.4	.3	.5	1.4
21	1.6	3.3	2.4	.7	1.4	.6	.7	2.0	.4	.7	.6	2.5
22	1.3	7.4	2.3	.9	1.3	1.5	.5	1.0	.4	.7	.6	3.7
23	1.3	4.9	2.1	1.0	2.4	1.4	.5	.9	.4	.6	.6	3.3
24	1.2	3.5	1.8	.9	2.0	1.3	.4	1.0	.3	.6	.6	3.0
25	1.2	2.8	1.6	.8	2.2	1.5	.8	3.2	.3	.6	.6	2.5
26	1.1	2.4	1.4	.9	2.1	1.0	.6	4.4	.3	.6	.6	2.2
27	1.0	2.2	1.3	1.0	2.7	1.3	.6	2.1	.3	.5	.6	1.9
28	1.9	2.0	1.2	1.1	2.1	1.4	.6	1.3	.2	.5	.7	1.7
29	.9	.....	1.2	1.0	1.7	4.3	.5	1.2	.2	.6	.8	2.0
30	1.3	.....	1.1	1.2	1.4	3.1	.5	1.1	.2	.5	.8	2.1
31	1.9	.....	1.1	.....	1.2	.....	1.0	.9	.....	.5	.....	1.7

Rating table for Locust Fork of Black Warrior River at Palos, Ala., for 1902.

Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.
Feet.	*Second-feet.*	*Feet.*	*Second-feet.*	*Feet.*	*Second-feet.*	*Feet.*	*Second-feet.*
0.0	100	0.9	900	1.8	2,250	2.7	3,600
.1	140	1.0	1,050	1.9	2,400	2.8	3,750
.2	190	1.1	1,200	2.0	2,550	2.9	3,900
.3	245	1.2	1,350	2.1	2,700	3.0	4,050
.4	310	1.3	1,500	2.2	2,850	3.1	4,200
.5	390	1.4	1,650	2.3	3,000	3.2	4,350
.6	490	1.5	1,800	2.4	3,150	3.3	4,500
.7	610	1.6	1,950	2.5	3,300	3.4	4,650
.8	750	1.7	2,100	2.6	3,450	3.5	4,800

Rating table for Locust Fork of Black Warrior River at Palos, Ala., for 1903.

Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.
Feet.	Sec.-feet.	Feet.	Sec.-feet.	Feet.	Sec.-feet.	Feet.	Sec.-feet.
0.00	46	1.20	1,120	2.40	3,210	4.20	6,450
.10	77	1.30	1,265	2.50	3,390	4.40	6,810
.20	115	1.40	1,420	2.60	3,570	4.60	7,170
.30	167	1.50	1,590	2.70	3,750	4.80	7,530
.40	230	1.60	1,770	2.80	3,930	5.00	7,890
.50	306	1.70	1,950	2.90	4,110	5.20	8,250
.60	398	1.80	2,130	3.00	4,290	5.40	8,610
.70	500	1.90	2,310	3.20	4,650	5.60	8,970
.80	605	2.00	2,490	3.40	5,010	5.80	9,330
.90	720	2.10	2,670	3.60	5,370	6.00	9,690
1.00	845	2.20	2,850	3.80	5,730	7.00	11,490
1.10	980	2.30	3,030	4.00	6,090		

Station rating table for Locust Fork of Black Warrior River at Palos, Ala., for 1904 and 1905.

Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.
Feet.	*Second-feet.*	*Feet.*	*Second-feet.*	*Feet.*	*Second-feet.*	*Feet.*	*Second-feet.*
0.00	34	1.10	935	2.10	2,530	3.20	4,560
.10	67	1.20	1,070	2.20	2,710	3.40	4,940
.20	110	1.30	1,210	2.30	2,890	3.60	5,320
.30	165	1.40	1,360	2.40	3,070	3.80	5,700
.40	230	1.50	1,515	2.50	3,250	4.00	6,100
.50	305	1.60	1,680	2.60	3,430	4.20	6,500
.60	390	1.70	1,850	2.70	3,610	4.40	6,900
.70	480	1.80	2,020	2.80	3,800	4.60	7,300
.80	580	1.90	2,190	2.90	3,990	4.80	7,700
.90	690	2.00	2,360	3.00	4,180	5.00	8,100
1.00	810						

The above table is based on 21 discharge measurements made during 1902–1905. It is well defined between gage heights —0.1 foot and 5 feet. Above gage height 5 feet the rating curve is a tangent, the difference being 200 per tenth.

Estimated monthly discharge of Locust Fork of Black Warrior River at Palos, Ala.

[Drainage area, 1,020 square miles.]

Month.	Discharge in second-feet			Run-off.	
	Maximum.	Minimum.	Mean.	Second-feet per square mile.	Depth in inches.
1902.					
January	7,800	900	2,468	2.42	2.79
February	21,900	1,500	4,746	4.65	4.84
March	40,050	1,800	8,400	8.24	9.50
April	8,250	610	2,635	2.58	2.88
May	900	190	374	.37	.43
June	190	140	160	.16	.18
July	390	100	133	.13	.15
August	900	100	157	.15	.17
September	140	100	104	.10	.11
October	2,550	100	359	.35	.40
November	1,650	100	282	.28	.31
December	4,500	490	1,784	1.75	2.02
The year	40,050	100	1,800	1.76	23.78
1903.					
January	4,650	605	1,428	1.40	1.61
February	40,290	980	11,498	11.27	11.74
March	29,490	1,265	4,833	4.74	5.46
April	17,250	845	3,246	3.18	3.55
May	20,310	398	2,097	2.06	2.37
June	2,670	230	758	.74	.83
July	720	77	276	.27	.31
August	845	77	326	.32	.37
September	230	46	64	.06	.07
October	230	46	66	.06	.07
November	167	46	89	.09	.10
December	115	77	86	.08	.09
The year	40,290	46	2,064	2.02	26.57

Estimated monthly discharge of Black Warrior River (Locust Fork) at Palos, Ala., for 1904.

[Drainage area, 1,020 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-feet per square mile.	Depth in inches.
1904					
January	2,890	67	356	0.349	0.402
February	1,680	305	705	.691	.745
March	8,100	390	1,649	1.62	1.87
April	3,250	480	1,032	1.01	1.13
May	480	67	244	.239	.276
June	2,020	34	225	.221	.247
July	2,580	110	511	.501	.578
August	3,250	165	818	.802	.925
September	165	34	63.8	.063	.070
October	230	34	49.1	.048	.055
November	230	34	99.8	.098	.109
December	3,990	67	805	.789	.910
The year	8,100	34	546	.536	7.32
1905					
January	22,300	580	2,767	2.71	3.12
February	39,900	1,210	8,381	8.22	8.56
March	3,300	690	1,417	1.39	1.60
April	1,070	480	707	.693	.773
May	3,610	810	1,686	1.65	1.90
June	6,700	230	1,049	1.03	1.15
July	4,750	230	1,089	1.07	1.23
August	6,900	110	1,148	1.12	1.29
September	2,020	110	459	.450	.502
October	690	110	468	.454	.523
November	690	230	383	.375	.418
December	5,510	580	2,145	2.10	2.42
The year	39,900	110	1,807	1.77	23.49

VILLAGE CREEK NEAR MULGA, ALA.

This station is located on Village Creek about one-fourth mile below the mouth of Venison Branch, near Mulga, Ala.

The gage consists of a 16-foot rod located on the left bank of the creek. About 200 feet below this point is a runway suspended from a cable across the creek, from which discharge measurements are made.

Discharge measurements and gage heights have been furnished by the Tennessee Coal, Iron and Railroad Company.

Discharge measurements of Village Creek near Mulga, Ala., in 1908-1909.

Date.	Gage height. Feet.	Discharge. Sec.-feet.	Date.	Gage height. Feet.	Discharge. Sec.-feet.
1908			January 28	1.30	56
December 22	4.50	1,110	February 24	3.65	780
			April 22	4.65	1,260
1909			April 23	6.30	2,080
January 4	3.10	574	November 16*	.80	3.4
January 9	1.70	124	November 16†	.80	4.1

*Made one-half mile below dam. †Made at dam site.

Daily gage height, in feet, of Village Creek near Mulga, Ala., for 1909.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1909												
1	1.3	1.2	1.85	1.45	5.3	1.65	1.7	1.3	1.1	0.9	0.8	0.8
2	1.3	1.2	1.9	1.5	2.5	1.65	1.65	1.2	1.1	.85	8	1.0
3	1.3	1.15	1.8	1.5	2.2	7.0	1.55	1.25	1.0	.8	.8	1.05
4	3.0	1.1	1.7	1.5	2.0	4.4	1.55	1.75	.95	.8	.8	1.0
5	3.0	1.2	1.65	1.4	1.9	2.7	1.5	1.4	9	.8	.8	1.0
6	2.6	1.85	1.65	1.4	1.9	2.2	1.5	1.4	.9	.8	.8	1.1
7	2.0	1.4	1.65	4.0	1.85	2.0	1.4	2.2	9	.8	.8	2.4
8	1.75	1.35	2.6	2.2	1.8	1.85	1.6	1.4	1.6	.8	.8	1.85
9	1.7	2.3	5.1	2.0	1.75	1.8	1.7	1.4	1.05	.8	.8	1.75
10	1.55	2.6	5.2	1.85	1.7	1.75	1.6	1.35	1.1	.8	.8	1.65
11	1.5	1.85	2.9	1.7	1.5	1.7	1.35	1.3	1.0	.8	.8	1.45
12	1.5	1.7	8.2	1.65	1.5	1.65	1.3	1.3	1.0	.8	.8	1.7
13	1.5	3.7	8.8	3.5	1.5	1.58	1.9	1.3	1.0	.8	.8	1.85
14	2.2	4.4	5.0	2.1	1.5	2.0	3.4	1.2	.9	.8	.8	1.7
15	2.4	5.0	3.4	1.85	1.5	2.3	1.85	1.2	9	.8	.8	1.55
16	2.0	4.0	2.8	1.75	2.3	1.95	1.75	1.2	.9	.9	.8	1.4
17	1.85	2.8	2.6	1.7	1.6	1.85	1.65	1.15	.9	.9	8	1.4
18	1 65	2.4	2.3	1.65	1.5	1.75	1.45	1.05	.9	.9	8	1.4
19	1.6	3.0	2.0	1.6	1.5	1.65	1.35	1.15	.9	1.0	8	1.5
20	1.55	2.2	5.4	1.55	1.55	2.8	1.3	1.05	9	1.0	.8	1.6
21	1.5	2.0	3.2	1.5	1.55	3.0	1.25	1.0	1.2	1.55	.8	1.6
22	1 45	5.0	2.6	5.2	1.5	3.6	1.2	1.0	1.0	1.25	.8	1.05
23	1.4	2.8	2.4	6.2	1.4	3.4	1.75	9	1.0	1.15	.9	1.1
24	1.4	3.6	2.2	2.8	1.4	2.6	1.45	9	1.0	2.0	.9	1.3
25	1.35	2.6	2.6	2.6	2.2	2.7	1.4	9	1.0	9	.8	1.35
26	1.3	2.2	2.0	4.2	2.6	2.2	1.35	.9	1.0	.8	.8	1.35
27	1.3	1.95	1.9	3.8	2.1	1.9	1.3	.9	.9	.8	.8	1.3
28	1.3	1.9	1.95	3.2	2.1	1.9	1.3	.9	.9	.8	8	1.2
29	1.3	.....	1.7	2.4	1.8	1.8	1.2	.9	9	.8	.8	1.2
30	1.3	.....	1.55	2.4	1.8	1.7	1.25	.9	.9	.8	.8	1.1
31	1.3	.....	1.45	.....	1.85	.....	1.3	.9	.....	8	.....	1.0
1910												
1	.....	1.4	1.75	1.2	1.1	1.1	2.4	1.2	0.8	1.05	0.7	0.6
2	.....	1.4	1.55	1.2	1.1	1.05	6.7	1.2	.8	.8	.7	.6
3	.....	1.4	2.25	1.2	1.0	.95	4.1	1.15	1.1	.75	.65	.6
4	.....	1.4	2.0	1.2	1.7	.9	4.8	2.6	1.2	.6	.6	2.1
5	.....	1.4	1.75	1.3	1.3	2.4	3.4	1.9	1.25	1.2	.9	2.15
6	.....	1.35	1.8	1.25	1.2	1.65	3.3	2.0	1.25	1.95	.95	2.75
7	.....	1.3	1.5	1.2	1.2	1.3	2.9	2.55	1.0	1.15	.8	1.25
8	.....	1.3	1.25	1.2	1.45	1.2	2.2	2.05	.95	1.1	.8	1.15
9	.....	1.3	1.2	1.1	1.25	1.8	1.9	1.45	.9	1.0	.8	1.0
10	.....	1.2	1.95	1.1	1.2	2.85	2.2	1.75	2.65	.9	.8	1.0
11	.....	1.4	1.85	1.1	1.1	2.35	3.2	1.35	1.2	.9	.75	1.0
12	.....	1.58	1.6	1.7	1.1	2.4	2.7	4.5	1.0	.9	.7	.95
13	.....	1.4	1.55	1.4	1.1	1.5	2.5	2.3	.9	.8	.7	.9
14	1.4	1.3	1.4	1.25	1.05	1.3	3.6	1.65	.95	.8	.6	.8
15	1.4	1.25	1.3	1.25	1.0	1.3	1.1	1.35	.9	.8	.6	.8
16	1.3	1.2	1.3	2.0	1.05	1.2	1.7	1.25	.8	.8	.6	.8
17	1.2	1.32	1.3	2.05	1.05	1.1	1.8	1.2	.8	.8	.6	.75
18	1.3	2.66	1.3	1.5	.95	1.1	6.4	1.2	.8	.8	.6	.9
19	1.4	1.95	1.3	1.4	.95	1.0	1.4	1.15	.8	.8	.6	.8
20	1.4	1.5	1.3	1.35	2.75	1.05	1.2	1.1	8	.8	.7	.8
21	2.2	1.8	1.3	1.3	2.3	1.1	1.2	1.1	.8	.8	.8	.75
22	1.8	2.25	1.3	1.25	.....	1.1	1.2	1.05	.8	.8	.8	.7
23	1.6	2.0	1.3	1.3	.....	1.15	1.2	1.0	.8	.8	.7	1.0
24	1.6	2.2	1.2	1.3	.....	1.6	3.7	1 0	1.35	.75	.75	.9
25	1.5	1.85	1.2	1.3	1.7	1.15	2.2	1.0	.9	.7	.65	.9
26	1.5	1.75	1.2	1.2	1.45	1.1	1.6	1.0	.8	.6	.6	.8
27	1.5	2.55	1.2	1.15	1.35	1.0	1.4	1.05	.8	.75	.8	.8
28	1.6	3.4	1.2	1.1	1.3	1.0	1.3	.9	.8	.8	2.5	.8
29	1.6	.....	1.2	1.1	1.3	1.55	1.3	.9	.98	.8	1.1	.9
30	1.5	.....	1.2	1.1	1.25	1.3	1.2	.8	.9	.8	.9	1.55
31	1.5	.....	1.2	.....	1.15	.....	1.3	.8	.....	.8	.....	1.15

Daily discharge, in second-feet, of Village Creek near Mulga, Ala., for 1909.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	55	41	161	80	1,550	117	127	55	29	11	4	4
2	55	41	173	89	358	117	117	41	29	7.5	4	19
3	55	35	149	89	258	2,360	98	48	19	4	4	24
4	540	29	127	89	200	1,140	98	138	15	4	4	19
5	540	41	117	71	173	428	89	71	11	4	4	19
6	392	161	117	71	173	258	89	71	11	4	4	29
7	200	71	117	960	161	200	71	258	11	4	4	324
8	138	63	392	258	149	161	107	71	107	4	4	161
9	127	290	1,460	200	138	149	127	71	24	4	4	138
10	98	392	1,500	161	127	138	107	63	29	4	4	117
11	89	161	502	127	89	127	63	55	19	4	4	80
12	89	127	2,900	117	89	117	55	55	19	4	4	71
13	89	828	3,200	744	89	98	173	55	19	4	4	161
14	258	1,140	1,410	228	89	200	702	41	11	4	4	127
15	324	1,410	702	161	89	290	161	41	11	4	4	98
16	200	960	404	138	290	186	138	41	11	11	4	71
17	161	464	392	127	107	161	117	35	11	11	4	71
18	117	324	290	117	89	138	80	24	11	11	4	71
19	107	540	200	107	89	117	63	35	11	19	4	89
20	98	258	1,590	98	98	464	55	24	11	19	4	107
21	89	200	620	89	98	540	48	19	41	98	4	107
22	80	1,410	392	1,500	89	786	41	19	19	48	4	24
23	71	464	324	1,980	71	702	138	11	19	35	11	29
24	71	786	258	464	71	392	80	11	19	200	11	55
25	63	392	392	392	258	428	71	11	19	11	4	63
26	55	258	200	1,050	392	258	63	11	19	4	4	63
27	55	186	173	872	228	173	55	11	11	4	4	55
28	55	173	186	620	228	173	55	11	11	4	4	41
29	55	.....	127	324	149	149	41	11	11	4	4	41
30	55	.....	98	324	149	127	48	11	11	4	4	29
31	55	.....	80	.....	161	.....	55	11	.....	4	.....	19

NOTE.—These discharges are based on a rating curve that is well defined below 2,400 second-feet.

Monthly discharge of Village Creek near Mulga, Ala., for 1909.

[Drainage area, 72.6 square miles.]

Month.	Discharge in second-feet.				Run-off (depth in inches on drainage area).
	Maximum.	Minimum.	Mean.	Per square mile.	
January	540	55	143	1.97	2.27
February	1,410	29	402	5.54	5.77
March	3,200	80	611	8.42	9.71
April	1,980	71	388	5.34	5.96
May	1,550	71	203	2.80	3.23
June	2,360	98	356	4.90	5.47
July	702	41	107	1.47	1.70
August	258	11	46.1	.635	.73
September	107	11	20.0	.275	.31
October	200	4	18.0	.248	.29
November	11	4	4.5	.062	.07
December	324	4	76.8	1.06	1.22
The year	3,200	4	198	2.73	36.73

VENISON BRANCH NEAR MULGA.

Venison Branch is tributary to Village Creek about 2½ miles below the junction of Camp Branch, near Mulga, Ala. The station is located about 1,000 feet above the mouth of the stream.

The data for this station were furnished by the Tennessee Coal, Iron and Railroad Company.

Monthly discharge of Venison Branch near Mulga, Ala., for 1909.

[Drainage area, 3.87 square miles.]

Month.	Discharge in second-feet.				Run-off (depth in inches on drainage area).
	Maximum.	Minimum.	Mean.	Sec.-feet per square mile.	
1909					
January	19.00	1.978	8.418	2.12	2.51
February	134.0	1.43	19.42	5.02	5.26
March	128.0	4.77	25.66	6.63	7.64
April	125.0	3.80	18.68	4.83	5.39
May	49.58	1.94	7.98	2.06	3.00
June	207.0	3.46	18.79	4.86	5.42
July	14.59	.95	4.28	1.11	1.28
August	2.87	.11	.736	.190	.219
September	15.59	.07	.903	.23	.26
October	1.535	.01	.141	.036	.042
November	1.292	.074	.229	.060	.067
December	8.698	.205	1.90	.491	.56
The year	207.0	.01	8.928	2.303	31.648

CAMP BRANCH NEAR ENSLEY, ALA.

Camp Branch is tributary to Village Creek, about 5 miles northwest of Ensley, Ala.

The station is located about 1,000 feet above the steel bridge on the Mulga road, at the mouth of Camp Branch.

The data for this station were furnished by the Tennessee Coal, Iron and Railroad Company.

Monthly discharge of Camp Branch near Ensley, Ala., for 1909 and 1910.

[Drainage area, 7.43 square miles.]

Month.	Discharge in second-feet.				Run-off (depth in inches on drainage area).
	Maximum.	Minimum.	Mean.	Sec.-feet per square mile.	
1909					
January	66.60	2.88	13.69	1.83	2.11
February	120	2.83	34.80	4.68	4.87
March	390	6.57	57.15	7.69	8.87
April	215.5	4.14	45.69	6.15	6.86
May	60.25	1.96	10.81	1.45	1.67
June	511	4.82	37.29	5.02	5.60
July	293	1.73	20.98	2.69	3.10
August	9.43	.21	2.31	.311	.368
September	132.75	.31	6.72	.905	1.50
October	4.68	.08	.42	.057	.066
November	1.00	.14	.33	.042	.048
December	54.06	.28	5.20	.700	.81
The year	511	.08	19.62	2.627	35.852
1910					
January	265.00	2.22	18.4	2.44	2.81
February	128.96	3.82	20.4	2.74	2.85

Tennessee River Drainage Basin.

DESCRIPTION.

Tennessee River gathers its waters from seven States—Virginia, North Carolina, Georgia, Tennessee, Alabama, Mississippi, and Kentucky. Its drainage area comprises about 39,000 square miles, and its extreme range discharge to the present time has been estimated at about 650,000 second-feet for flood stages and about 8,000 second-feet for low stages.

Tennessee River is formed by the junction of the French Broad and the Holston, about 4 miles above Knoxville, Tenn. It flows southwestward, crossing into Alabama about 40 miles below Chattanooga, Tenn. At Guntersville, Ala., it turns almost a right angle and flows northwestward past the corner of Mississippi into Tennessee for the second time, then almost due north across the State, emptying into Ohio River at Paducah, about 40 miles above Cairo.

The rocks of the upper portion of the drainage basins of French Broad River and other eastern tributaries heading in the Appalachian Mountains include the older granites, quartzites, conglomerates schists, shales, and sandstones.

The Cumberland Plateau, drained in part by Clinch River and other western tributaries of the Tennessee and crossed by Tennessee River below Chattanooga, comprises widespread beds of limestone and extensive deposits of coal.

Tennessee River has always held an important place in the projects for the improvement of the navigable waterways of the country, and in connection with navigation projects a large amount of water power can be developed. One large plant a short distance below Chattanooga, Tenn., has recently been completed, and other places are equally favorable for the production of power. The greatest water power possibilities, however, are at Muscle Shoals and other shoals near Florence, Ala.

The long-time records of gage heights and discharge for Tennessee River at Chattanooga and Florence, contained in the following pages, afford a basis for estimating the flow of the river at any point in the State of Alabama.

The discharge at Florence has not been computed for the earlier years of the gage-height records for reasons stated in the descriptions of those stations. For periods for which discharge estimates are not published, information concerning the gage and daily gage-height record is given in detail to enable those so desiring to make such close study of the data for the earlier years as may be needful in connection with any problem. All such estimates should be used with due caution.

The discharge tables for Florence have been recently prepared by the United States Geological Survey and those for Chattanooga have been revised and extended back to include the earlier years for which there are gage height records. For both stations the data have been arranged into climatic years ending September 30th, which is the year recently adopted by the United States Geological Survey for all stream flow computations.

The following gaging stations have been maintained in this river basin:

Tennessee River at Chattanooga, Tenn., 1874-1913.
Tennessee River at Florence, Ala., 1871-1915.
Elk River at Elkmont, Ala., 1904-1908.
Big Bear Creek near Red Bay, Ala., 1913-1915.

TENNESSEE RIVER AT CHATTANOOGA, TENN.

Location.—At Hamilton County highway bridge in the city of Chattanooga, just below Chattanooga Island, 4 miles below South Chickamauga Creek, 3 miles above Chattanooga Creek, 188 miles below the junction of French Broad and Holston Rivers, and 464 miles above the mouth of the Tennessee.

Records available.—April 1, 1874, to September 30, 1913. All available data are published in this report.

Drainage area.—21,400 square miles (measured from topographic sheets).

Gage.—Standard gage consists of a sloping iron section (railroad T rail) bolted to rock and a vertical timber attached to the rock cliff on the left bank at the foot of Lookout Street, about 200 feet upstream from the bridge. It was erected October 31, 1884, and is owned by the United States Weather Bureau. An automatic recording gage, which makes its records in the Weather Bureau office at Chattanooga, was installed December 30, 1902 (see "Accuracy"). There is also a vertical section of brass gage attached to the pier nearest the left bank, and recently half-foot graduations have been painted on the pipe incasing the recording gage float, to be read from the bridge with the aid of a glass. The original gage was established in 1874. The datum is believed to have remained the same for all the gages. The sea-level elevation of the zero of the gage, as published by the Weather Bureau, is 617.8 feet, and is said to correspond to the low-water mark of September, 1839.

Bench marks.—Following description taken from "Stages of the Mississippi River and of its principal tributaries," for 1913.:

"Bench mark now in use is the top of water table on southeast corner of United States post-office building on Eleventh Street, between Market and A Streets. Elevation above zero of gage, 74.37 feet."

Another bench mark is described as follows, in "Daily river stages, Part X," published in 1911:

"U. S. B. M. 81, bolt on downstream side of second pier from left bank of Chattanooga highway bridge, is 6.7 feet above zero of the gage and 624.5 feet above mean sea level."

Daily gage height.—Taken from published reports of Mississippi River Commission and the original records and published reports of the United States Weather Bureau and published to tenths of a foot. The values are believed to represent one reading a day at about 7 a. m., central time, except from May 24, 1897, to July 10, 1900, during which time the values represent the mean of two readings a day, one in the morning and the other in the afternoon. See "Accuracy" for note relative to recording gage observations.

Control.—Probably permanent or nearly so during period covered by records available. Hales Bar dam, 33 miles below Chattanooga, now constitutes the control.

Discharge measurements.—Made from downstream footway of bridge; elevation about 100 feet above the water at ordinary stage. The results of the five discharge measurements, made during 1891-92, in the table on page 96, were taken from page 174 of "Discharge observations, Mississippi River and its tributaries and outlets, 1895-1897," published by the Mississippi River Commission, and reduced to three significant figures.

Daily discharge.—Computed for entire period covered by daily gage-height records from the following discharge rating tables, upon which the periods of applicability are noted. Some of the values in the following tables differ from those published in previous reports. The changes are the result of differences of interpretation, based upon more complete data than were available when the estimates of discharge for the respective years were first prepared. The same discharge rating table was used in this report from April 1, 1874, to March 15, 1909, because it is believed that, on the whole, the best results are thus obtained, although some measurements, such as those made during the calendar years 1899-1902, plot consistently about 5 to 10 per cent off the curve from which the table was prepared. The changes in the discharge relation subsequent to March 15, 1909, are believed to be due to operations in the river channel below Chattanooga.

Floods.—The flood of March 11, 1867, reached a stage of about 58.6 feet referred to gage datum, according to "Daily river stages for 1911 and 1912," published by the Weather Bureau.

Point of zero flow.—Reports of the United States engineers show that the bottom of the excavated boat channel at Ross Towhead, 2½ miles below the gage, is about 5 feet lower than gage datum, indicating that there would be no flow past the gage if the stage were to fall to about —5.0 feet.

Winter flow.—Discharge relation not appreciably affected by ice.

Regulation.—There is believed to have been no artificial regulation of the flow of the Tennessee at Chattanooga prior to October 22, 1913, at which time backwater is said to have reached the gage from the dam constructed by the Chattanooga & Tennessee River Power Co. on Tennessee River, at Hales Bar, 33 miles below Chattanooga. Beginning October 22, 1913, the flow at Chattanooga has been regulated by the operation of this great dam, and no estimates of discharge have been prepared.

Accuracy.—The ratings in the accuracy column in the tables of monthly discharge for the years ending September 30, 1895-1913, especially for the earlier years, must not be considered to indicate as closely the probable reliability of the data as the accuracy ratings for the average gaging station. A low accuracy rating in the following tables does not signify that the mean discharge is known to be in error by the amount indicated, but rather that it appears from studies of the data and comparisons with other stations that the mean discharge is doubtful to that extent. The accuracy ratings will assist those using the data in determining by brief inspection whether certain portions of the record are considered sufficiently accurate for the purpose in hand or whether they require special investigation to more closely determine their probable reliability. The accuracy ratings given in the tables of monthly discharge are based principally on the plotting of the discharge measurements made during the different years with respect to the rating curve used for the time in question. Some weight was given to the comparison with the discharge at Florence and with the discharge at Knoxville from 1902 to 1909. No accuracy ratings are given prior to the year ending September 30, 1895, because there is nothing definite on which to base them. The number of discharge measurements prior to 1895 is not sufficient to warrant the use of the measurements for the purpose of determining to which station, if either, apparent discrepancies indicated by the ratios of discharge at Chattanooga and Florence are due. Those using these records can best determine whether or not they are sufficiently accurate for the purpose in hand by a detailed study of the data.

The results published in this report are believed to be as accurate as the available base data will yield and are believed to be free from gross errors.

Cooperation.—Daily gage-height records furnished by the United States Engineer Corps and the United States Weather Bureau. Results of discharge measurements made during 1893 were furnished by the Weather Bureau, and use was made of the results obtained by the Engineer Corps noted under "Discharge measurements."

Discharge measurements of Tennessee River at Chattanooga, Tenn.

No.	Date.	Hydrographer.	Gage height.	Discharge.
	1901.		*Feet.*	*Sec.-ft.*
A	Nov. 5	D. L. Sublett[a] ...	1.2	8,200
	Nov. 6			
B	13	.....do.....	3.0	17,600
	1902.			
C	Jan. 15	D. L. Sublett[a] ...	35.0	240,000
	Jan. 16			
D	Apr. 11	.....do.....	30.0	195,000
E	Dec. 12	Capt. John Biddle[b].....	2.3	13,700
	1903.			
1	Mar. 15	L. M. Pindell[c] ...	10.3	63,000
2	16	.....do.....	9.2	58,300
3	Apr. 3	.....do.....	5.1	32,600
4	4	.....do.....	5.1	32,600
5	May 5	.....do.....	26.0	156,000
6	8	.....do.....	26.0	152,000
7	9	.....do.....	16.0	97,000
8	17	.....do.....	9.9	65,900
9	18	.....do.....	10.4	67,900
10	1907. May 8	M. R. Hall.....	7.07	44,200
11	28	.....do.....	4.52	25,900
12	June 29	.....do.....	5.76	32,900
13	July 13	.....do.....	4.59	26,900
14	Sept. 7	.....do.....	1.67	10,300
15	Oct. 6	.....do.....	.48	5,970
16	Nov. 16	A. P. Davis.....	.83	5,550
17	Dec. 23	M. R. Hall.....	10.30	67,000
18	1908. May 10	M. R. Hall.....	4.14	22,100
19	July 29	.....do.....	5.30	29,700
20	Aug. 19	.....do.....	6.37	36,700
21	Oct. 6	.....do.....	17.60	120,000
22	28	J. C. Conn.....	6.00	36,000
23	Nov. 29	.....do.....	4.75	29,600
24	29	.....do.....	4.70	31,300
25	1909. May 3	M. R. Hall.....	6.71	37,800
26	26	.....do.....	4.76	25,500

[a] Assistant engineer, U. S. Engineer Corps.
[b] United States Engineer Corps.
[c] Observer in charge, U. S. Weather Bureau, Chattanooga, Tenn.

Discharge measurements of Tennessee River at Chattanooga, Tenn.—Cont'd.

No.	Date.	Hydrographer.	Gage height.	Discharge.
	1909.		*Feet.*	*Sec.-ft.*
27	June 21	W. E. Hall.....	4.15	21,400
28	Sept. 15	M. R. Hall.....	1.90	10,800
29	Oct. 27	.....do.....	.80	6,570
	1910.			
30	Mar. 13	M. R. Hall.....	11.25	66,000
31	July 27	J. C. Conn.....	3.45	18,500
	1901.			
32	Jan. 24	M. R. Hall.....	5.60	30,300
33	Apr. 4	K. T. Thomas....	24.20	155,000
34	July 31	.....do.....	2.80	15,400
35	Aug. 18	.....do.....	31.70	199,000
	1902.			
36	June 25	W. E. Hall.....	3.80	17,800
37	Oct. 9	J. C. Conn.....	2.00	10,700
38	Nov. 14	O. P. Hall.....	1.55	9,280
	1903.			
39	Mar. 26	O. P. Hall.....	28.85	190,000
40	July 21	M. R. Hall.....	3.85	20,900
41	Sept. 5	J. M. Giles.....	1.60	10,500
42	Oct. 21	M. R. Hall.....	1.10	8,060
	1904.			
43	Feb. 3	J. M. Giles.....	2.77	16,500
44	10	.....do.....	5.85	35,600
45	Apr. 19	.....do.....	4.30	25,000
46	July 6	.....do.....	3.18	17,600
47	Aug. 5	B. S. Drane.....	2.73	14,700
48	Oct. 13	.....do.....	.21	5,370
49	14	.....do.....	.22	5,560
50	22	.....do.....	.06	4,860
51	1905. May 9	W. E. Hall.....	6.65	40,000
52	June 13	B. S. Drane.....	2.92	16,200
53	29	.....do.....	6.28	35,700
54	July 22	Hall and Hoyt...	5.32	29,200
55	Oct. 11	F. A. Murray....	1.65	10,300
56	Dec. 28	.....do.....	7.44	43,400
57	1906. May 9	F. A. Murray....	8.36	52,800
58	23	O. P. Hall.....	3.40	19,800
59	June 21	.....do.....	5.45	31,300
60	Oct. 17	F. A. Murray....	5.59	31,900
61	1909. Apr. 19	Hall and Hoyt...	6.52	36,600
62	1910. May 27	M. R. Hall.....	12.42	76,000
63	Sept. 24	.....do.....	2.40	13,000
64	1911. Nov. 24	R. E. Robertson..	[a] 4.20	23,100
65	25	.....do.....	[b] 3.90	20,800
66	1912. Mar. 31	W. E. Hall.....	31.3	[c]185,000
67	1913. Oct. 21	W. E. Hall and B. M. Hall, Jr..	1.10	7,410

[a] Gage height obtained by reducing readings on Weather Bureau recording gage by 0.5 foot.
[b] Gage height as read on Weather Bureau gage on float pipe and found to be 0.5 foot less than recorded by Weather Bureau recording gage.
[c] Float measurement.

NOTE.—Measurement *A* was made at Tumbling Shoals about 10 miles below Chattanooga.
Measurement *E* was made at Soddy Shoals about 23 miles above Chattanooga.
Measurements *A*, *B*, *C*, and *D* were made with a current meter submerged at 4 or 5 points in each vertical. There is no record of the method used in taking observations for measurement *E*. See report of Chief of Engineers, U. S. Army, 1896, Part 3, page 2014.
Measurements 1 to 9 were made with a large Haskell current meter, submerged at one-half depth. See "Discharge measurements" in station description.

Discharge rating table for Tennessee River at Chattanooga, Tenn., from April 1, 1874 to March 15, 1909.

Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.
Feet.	*Sec.-ft.*	*Feet.*	*Sec.-ft.*	*Feet.*	*Sec.-ft.*	*Feet.*	*Sec.-ft.*
0.00	4,800	1.80	11,010	3.60	20,100	5.40	30,820
.10	5,060	1.90	11,460	3.70	20,660	5.50	31,470
.20	5,330	2.00	11,900	3.80	21,220	5.60	32,120
.30	5,610	2.10	12,360	3.90	21,790	5.70	32,780
.40	5,900	2.20	12,830	4.00	22,360	5.80	33,450
.50	6,200	2.30	13,310	4.10	22,940	5.90	34,120
.60	6,510	2.40	13,800	4.20	23,520	6.00	34,800
.70	6,830	2.50	14,300	4.30	24,100	6.10	35,480
.80	7,160	2.60	14,800	4.40	24,690	6.20	36,160
.90	7,500	2.70	15,310	4.50	25,280	6.30	36,840
1.00	7,850	2.80	15,820	4.60	25,870	6.40	37,520
1.10	8,210	2.90	16,340	4.70	26,470	6.50	38,200
1.20	8,580	3.00	16,860	4.80	27,070	6.60	38,880
1.30	8,960	3.10	17,390	4.90	27,680	6.70	39,560
1.40	9,350	3.20	17,920	5.00	28,300	6.80	40,240
1.50	9,750	3.30	18,460	5.10	28,920	6.90	40,920
1.60	10,160	3.40	19,000	5.20	29,550	7.00	41,600
1.70	10,580	3.50	19,550	5.30	30,180	7.10	42,280

Feet.	*Sec.-ft.*	*Feet.*	*Sec.-ft.*	*Feet.*	*Sec.-ft.*	*Feet.*	*Sec.-ft.*
7.20	42,960	13.30	84,440	19.40	125,920	25.50	167,400
7.30	43,640	13.40	85,120	19.50	126,600	25.60	168,080
7.40	44,320	13.50	85,800	19.60	127,280	25.70	168,760
7.50	45,000	13.60	86,480	19.70	127,960	25.80	169,440
7.60	45,680	13.70	87,160	19.80	128,640	25.90	170,120
7.70	46,360	13.80	87,840	19.90	129,320	26.00	170,800
7.80	47,040	13.90	88,520	20.00	130,000	26.10	171,480
7.90	47,720	14.00	89,200	20.10	130,680	26.20	172,160
8.00	48,400	14.10	89,880	20.20	131,360	26.30	172,840
8.10	49,080	14.20	90,560	20.30	132,040	26.40	173,520
8.20	49,760	14.30	91,240	20.40	132,720	26.50	174,200
8.30	50,440	14.40	91,920	20.50	133,400	26.60	174,880
8.40	51,120	14.50	92,600	20.60	134,080	26.70	175,560
8.50	51,800	14.60	93,280	20.70	134,760	26.80	176,240
8.60	52,480	14.70	93,960	20.80	135,440	26.90	176,920
8.70	53,160	14.80	94,640	20.90	136,120	27.00	177,600
8.80	53,840	14.90	95,320	21.00	136,800	27.10	178,280
8.90	54,520	15.00	96,000	21.10	137,480	27.20	178,960
9.00	55,200	15.10	96,680	21.20	138,160	27.30	179,640
9.10	55,880	15.20	97,360	21.30	138,840	27.40	180,320
9.20	56,560	15.30	98,040	21.40	139,520	27.50	181,000
9.30	57,240	15.40	98,720	21.50	140,200	27.60	181,680
9.40	57,920	15.50	99,400	21.60	140,880	27.70	182,360
9.50	58,600	15.60	100,080	21.70	141,560	27.80	183,040
9.60	59,280	15.70	100,760	21.80	142,240	27.90	183,720
9.70	59,960	15.80	101,440	21.90	142,920	28.00	184,400
9.80	60,640	15.90	102,120	22.00	143,600	29.00	191,200
9.90	61,320	16.00	102,800	22.10	144,280	30.00	198,000
10.00	62,000	16.10	103,480	22.20	144,960	31.00	204,800
10.10	62,680	16.20	104,160	22.30	145,640	32.00	211,600
10.20	63,360	16.30	104,840	22.40	146,320	33.00	218,400
10.30	64,040	16.40	105,520	22.50	147,000	34.00	225,200
10.40	64,720	16.50	106,200	22.60	147,680	35.00	232,000
10.50	65,400	16.60	106,880	22.70	148,360	36.00	238,800
10.60	66,080	16.70	107,560	22.80	149,040	37.00	245,600
10.70	66,760	16.80	108,240	22.90	149,720	38.00	252,400
10.80	67,440	16.90	108,920	23.00	150,400	39.00	259,200
10.90	68,120	17.00	109,600	23.10	151,080	40.00	266,000
11.00	68,800	17.10	110,280	23.20	151,760	41.00	272,800
11.10	69,480	17.20	110,960	23.30	152,440	42.00	279,600
11.20	70,160	17.30	111,640	23.40	153,120	43.00	286,400
11.30	70,840	17.40	112,320	23.50	153,800	44.00	293,200
11.40	71,520	17.50	113,000	23.60	154,480	45.00	300,000
11.50	72,200	17.60	113,680	23.70	155,160	46.00	306,800
11.60	72,880	17.70	114,360	23.80	155,840	47.00	313,600
11.70	73,560	17.80	115,040	23.90	156,520	48.00	320,400
11.80	74,240	17.90	115,720	24.00	157,200	49.00	327,200
11.90	74,920	18.00	116,400	24.10	157,880	50.00	334,000
12.00	75,600	18.10	117,080	24.20	158,560	51.00	340,800
12.10	76,280	18.20	117,760	24.30	159,240	52.00	347,600
12.20	76,960	18.30	118,440	24.40	159,920	53.00	354,400
12.30	77,640	18.40	119,120	24.50	160,600	54.00	361,200
12.40	78,320	18.50	119,800	24.60	161,280	55.00	368,000
12.50	79,000	18.60	120,480	24.70	161,960	56.00	374,800
12.60	79,680	18.70	121,160	24.80	162,640	57.00	381,600
12.70	80,360	18.80	121,840	24.90	163,320	58.00	388,400
12.80	81,040	18.90	122,520	25.00	164,000	59.00	395,200
12.90	81,720	19.00	123,200	25.10	164,680	60.00	402,000
13.00	82,400	19.10	123,880	25.20	165,360		
13.10	83,080	19.20	124,560	25.30	166,040		
13.20	83,760	19.30	125,240	25.40	166,720		

NOTE.—Table is not applicable for periods during which ice was present or channel was otherwise obstructed. It is based on 65 discharge measurements made during 1891–1906 listed in the table on pages 96–97. The table is well defined between discharge 4,800 and 232,000 second-feet (gage heights 0.0 and 35.6 feet). Use this table to three significant figures only.

Discharge rating table for Tennessee River at Chattanooga, Tenn., from March 16, 1909 to December 31, 1911.

Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge
Feet.	*Sec.-ft.*	*Feet.*	*Sec.-ft.*	*Feet.*	*Sec.-ft.*	*Feet.*	*Sec.-ft.*
1.20	8,050	4.90	26,610	8.60	50,260	12.30	75,040
1.30	8,380	5.00	27,200	8.70	50,920	12.40	75,720
1.40	8,730	5.10	27,800	8.80	51,580	12.50	76,400
1.50	9,100	5.20	28,400	8.90	52,240	12.60	77,080
1.60	9,490	5.30	29,000	9.00	52,900	12.70	77,760
1.70	9,900	5.40	29,610	9.10	53,570	12.80	78,440
1.80	10,320	5.50	30,220	9.20	54,240	12.90	79,120
1.90	10,750	5.60	30,830	9.30	54,910	13.00	79,800
2.00	11,200	5.70	31,440	9.40	55,580	13.10	80,480
2.10	11,660	5.80	32,060	9.50	56,250	13.20	81,160
2.20	12,130	5.90	32,680	9.60	56,920	13.30	81,840
2.30	12,600	6.00	33,300	9.70	57,590	13.40	82,520
2.40	13,070	6.10	33,930	9.80	58,260	13.50	83,200
2.50	13,550	6.20	34,560	9.90	58,930	13.60	83,880
2.60	14,030	6.30	35,190	10.00	59,600	13.70	84,560
2.70	14,520	6.40	35,830	10.10	60,270	13.80	85,240
2.80	15,010	6.50	36,470	10.20	60,940	13.90	85,920
2.90	15,500	6.60	37,110	10.30	61,610	14.00	86,600
3.00	16,000	6.70	37,750	10.40	62,280	15.00	93,400
3.10	16,510	6.80	38,400	10.50	62,950	16.00	100,200
3.20	17,030	6.90	39,050	10.60	63,620	17.00	107,000
3.30	17,560	7.00	39,700	10.70	64,290	18.00	113,800
3.40	18,100	7.10	40,360	10.80	64,960	19.00	120,600
3.50	18,640	7.20	41,020	10.90	65,630	20.00	127,400
3.60	19,180	7.30	41,680	11.00	66,300	21.00	134,200
3.70	19,730	7.40	42,340	11.10	66,970	22.00	141,000
3.80	20,280	7.50	43,000	11.20	67,640	23.00	147,800
3.90	20,840	7.60	43,660	11.30	68,310	24.00	154,600
4.00	21,400	7.70	44,320	11.40	68,980	25.00	161,400
4.10	21,960	7.80	44,980	11.50	69,650	26.00	168,200
4.20	22,530	7.90	45,640	11.60	70,320	27.00	175,000
4.30	23,100	8.00	46,300	11.70	70,990	28.00	181,800
4.40	23,680	8.10	46,960	11.80	71,660	29.00	188,600
4.50	24,260	8.20	47,620	11.90	72,330	30.00	195,400
4.60	24,840	8.30	48,280	12.00	73,000	31.00	202,200
4.70	25,430	8.40	48,940	12.10	73,680	32.00	209,000
4.80	26,020	8.50	49,600	12.20	74,360		

NOTE.—Table is not applicable for periods during which ice was present or channel was obstructed. It is based on five discharge measurements made during 1909–1911, and the form of the curve from which the table applicable Apr. 1, 1874, to Mar. 15, 1909, was computed. It is well defined between discharges 11,200 and 79,800 second-feet (gage heights 2.0 and 13.0 feet). Use this table to three significant figures only.

Discharge rating table for Tennessee River at Chattanooga, Tenn., from January 1, 1912, to March 29, 1913.

Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.
Feet.	*Sec.-ft.*	*Feet.*	*Sec.-ft.*	*Feet.*	*Sec.-ft.*	*Feet.*	*Sec.-ft.*
1.20	8,050	3.40	18,100	5.60	30,830	7.80	44,460
1.30	8,380	3.50	18,640	5.70	31,440	7.90	45,080
1.40	8,730	3.60	19,180	5.80	32,060	8.00	45,700
1.50	9,100	3.70	19,730	5.90	32,680	8.10	46,320
1.60	9,490	3.80	20,280	6.00	33,300	8.20	46,940
1.70	9,900	3.90	20,840	6.10	33,920	8.30	47,560
1.80	10,320	4.00	21,400	6.20	34,540	8.40	48,180
1.90	10,750	4.10	21,960	6.30	35,160	8.50	48,800
2.00	11,200	4.20	22,530	6.40	35,780	8.60	49,420
2.10	11,660	4.30	23,100	6.50	36,400	8.70	50,040
2.20	12,130	4.40	23,680	6.60	37,020	8.80	50,660
2.30	12,600	4.50	24,260	6.70	37,640	8.90	51,280
2.40	13,070	4.60	24,840	6.80	38,260	9.00	51,900
2.50	13,550	4.70	25,430	6.90	38,880	9.10	52,520
2.60	14,030	4.80	26,020	7.00	39,500	9.20	53,140
2.70	14,520	4.90	26,610	7.10	40,120	9.30	53,760
2.80	15,010	5.00	27,200	7.20	40,740	9.40	54,380
2.90	15,500	5.10	27,800	7.30	41,360	9.50	55,000
3.00	16,000	5.20	28,400	7.40	41,980	9.60	55,620
3.10	16,510	5.30	29,000	7.50	42,600	9.70	56,240
3.20	17,030	5.40	29,610	7.60	43,220	9.80	56,860
3.30	17,560	5.50	30,220	7.70	43,840	9.90	57,480

Discharge rating table for Tennessee River at Chattanooga, Tenn., from January 1, 1912, to March 29, 1913—Continued.

Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.	Gage height.	Discharge.
Feet.	*Sec.-ft.*	*Feet.*	*Sec.-ft.*	*Feet.*	*Sec.-ft.*	*Feet.*	*Sec.-ft.*
10.00	58,100	12.50	73,600	15.00	89,100	17.50	104,600
10.10	58,720	12.60	74,220	15.10	89,720	17.60	105,220
10.20	59,340	12.70	74,840	15.20	90,340	17.70	105,840
10.30	59,960	12.80	75,460	15.30	90,960	17.80	106,460
10.40	60,580	12.90	76,080	15.40	91,580	17.90	107,080
10.50	61,200	13.00	76,700	15.50	92,200	18.00	107,700
10.60	61,820	13.10	77,320	15.60	92,820	19.00	113,900
10.70	62,440	13.20	77,940	15.70	93,440	20.00	120,100
10.80	63,060	13.30	78,560	15.80	94,060	21.00	126,300
10.90	63,680	13.40	79,180	15.90	94,680	22.00	132,500
11.00	64,300	13.50	79,800	16.00	95,300	23.00	138,700
11.10	64,920	13.60	80,420	16.10	95,920	24.00	144,900
11.20	65,540	13.70	81,040	16.20	96,540	25.00	151,100
11.30	66,160	13.80	81,660	16.30	97,160	26.00	157,300
11.40	66,780	13.90	82,280	16.40	97,780	27.00	163,500
11.50	67,400	14.00	82,900	16.50	98,400	28.00	169,700
11.60	68,020	14.10	83,520	16.60	99,020	29.00	175,900
11.70	68,640	14.20	84,140	16.70	99,640	30.00	182,100
11.80	69,260	14.30	84,760	16.80	100,260	31.00	188,300
11.90	69,880	14.40	85,380	16.90	100,880	32.00	194,500
12.00	70,500	14.50	86,000	17.00	101,500	33.00	200,700
12.10	71,120	14.60	86,620	17.10	102,120	34.00	206,900
12.20	71,740	14.70	87,240	17.20	102,740	35.00	213,100
12.30	72,360	14.80	87,860	17.30	103,360	36.00	219,300
12.40	72,980	14.90	88,480	17.40	103,980	37.00	225,500

NOTE.—Table is not applicable for periods during which ice was present or the channel was otherwise obstructed. It is based on one discharge measurement made during 1912 and the form of the curves from which the rating tables for previous years were computed. Below discharge 33,300 second-feet (gage height 6.0 feet) the table is the same as the one used from Mar. 16, 1909, to Dec. 31, 1911 which see for additional notes.

Daily gage height, in feet, of Tennessee River at Chattanooga, Tenn.

Day.	Apr.	May.	June.	July.	Aug.	Sept.	Day	Apr.	May.	June.	July.	Aug.	Sept.
1874.							1874.						
1	6.5	29.6	3.8	2.9	7.5	14.0	16	22.5	7.1	4.2	3.2	1.7	1.8
2	6.5	28.8	3.7	3.0	6.2	9.0	17	24.2	6.0	3.9	2.2	1.5	1.9
3	6.4	26.5	3.7	2.9	5.2	6.0	18	22.7	5.7	3.9	3.1	1.4	2.5
4	6.0	25.7	4.1	2.6	4.2	5.0	19	22.0	5.9	3.8	2.9	1.2	2.9
5	5.4	25.5	4.2	2.5	3.0	3.6	20	20.3	5.7	3.6	2.8	1.2	2.9
6	5.2	24.7	4.1	2.4	3.2	3.2	21	19.1	5.6	3.5	2.4	1.0	2.9
7	5.6	23.6	4.1	2.0	3.4	3.2	22	19.1	5.2	3.6	2.1	1.0	2.7
8	7.5	21.5	4.1	1.7	4.2	3.2	23	19.2	5.2	2.6	1.7	1.1	2.4
9	13.0	19.0	4.0	1.5	4.5	3.6	24	23.1	4.8	2.4	1.7	2.2	2.2
10	16.0	15.5	3.9	1.6	3.5	2.9	25	22.1	4.1	2.2	1.9	2.0	2.2
11	17.0	9.2	3.9	1.8	3.2	2.0	26	24.5	4.8	2.0	2.9	2.2	2.2
12	16.5	9.7	4.0	2.2	2.7	1.8	27	26.2	4.7	1.9	3.5	2.2	2.2
13	15.1	9.7	4.6	2.2	2.2	1.7	28	25.9	4.5	2.2	4.6	4.7	2.4
14	15.2	8.7	4.6	2.5	2.2	1.8	29	27.0	4.2	2.9	6.4	9.0	2.9
15	16.0	7.2	5.7	2.8	1.8	1.8	30	28.8	4.2	3.0	7.2	14.2	3.2
							31	.....	4.2	.....	8.5	14.5	.....

Daily gage height, in feet, of Tennessee River at Chattanooga, Tenn.—Cont'd.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June.	July.	Aug.	Sept.
1875.[a]												
1	2.4	1.4	9.2	6.4	20.5	54.0	12.7	20.7	3.4	5.2	5.5	3.7
2	4.5	1.2	8.6	7.0	25.5	51.0	14.8	19.0	3.2	5.6	5.4	3.2
3	4.9	1.2	8.0	12.5	17.0	46.0	19.4	12.7	3.2	5.3	5.3	3.2
4	4.8	1.2	6.6	13.5	11.5	43.0	20.5	10.5	3.5	5.2	5.3	3.2
5	4.0	1.0	5.0	14.6	10.4	41.7	19.0	9.4	4.1	5.1	5.9	3.1
6	2.0	.8	5.0	13.0	9.5	40.2	17.0	8.6	4.8	5.0	7.5	3.0
7	2.0	.7	4.5	11.5	8.4	37.6	14.0	7.7	4.7	5.2	6.2	2.9
8	2.1	.7	4.1	13.2	8.2	32.0	11.8	7.2	4.4	5.4	5.4	2.8
9	2.0	1.0	3.7	9.8	7.1	26.5	10.4	6.7	4.8	5.9	5.0	2.6
10	2.0	1.5	3.0	9.5	6.6	22.2	9.4	6.4	4.9	5.8	4.5	2.6
11	2.0	2.8	2.9	8.9	6.4	19.8	10.0	6.2	4.5	5.6	4.4	2.6
12	1.8	4.0	2.8	6.8	6.9	16.8	12.2	6.2	4.0	6.2	4.5	2.8
13	1.7	3.9	3.7	6.2	7.4	14.2	13.2	6.0	3.7	7.5	5.0	2.7
14	1.7	3.6	3.7	6.0	7.8	12.8	12.2	5.6	3.2	9.2	5.4	2.5
15	1.7	3.4	3.8	5.8	8.8	12.5	10.5	5.4	3.1	11.6	5.9	2.6
16	1.4	3.1	3.2	5.0	9.2	21.0	9.5	5.1	3.0	20.0	7.9	2.6
17	1.2	2.9	3.2	4.9	8.4	26.8	8.7	4.8	3.8	18.4	10.8	2.6
18	1.1	2.5	3.0	4.8	7.7	28.1	8.0	4.6	3.9	13.7	12.2	2.7
19	1.6	2.0	7.9	4.7	7.2	26.0	7.5	4.5	4.7	10.6	11.2	6.4
20	2.8	2.4	6.5	4.5	7.0	22.2	7.1	4.2	4.6	8.4	10.4	11.2
21	3.0	2.6	6.2	4.3	7.6	29.2	6.9	4.3	4.7	7.7	9.0	10.0
22	2.6	2.4	6.0	4.2	8.5	32.7	7.1	4.2	4.6	6.7	7.1	7.2
23	2.2	9.0	6.4	4.1	8.5	34.0	7.8	4.1	5.2	7.2	6.1	5.8
24	2.2	9.6	7.6	5.0	18.0	33.7	8.5	4.0	5.6	9.8	5.5	5.1
25	2.2	10.7	6.9	7.9	35.5	28.0	9.8	4.0	5.6	13.0	5.2	4.5
26	2.0	10.8	6.2	9.2	44.9	18.5	8.5	3.9	5.3	12.0	5.2	4.1
27	1.8	7.2	5.2	8.4	49.5	14.5	7.7	3.9	5.0	10.7	5.2	3.7
28	1.5	7.2	4.9	7.9	52.4	12.2	9.0	4.0	4.7	9.8	5.0	3.5
29	1.5	6.2	5.7	16.5	.....	14.5	15.0	4.0	4.6	7.9	4.7	3.4
30	1.5	9.6	6.0	22.5	.....	15.6	19.5	3.8	4.7	6.8	4.2	3.5
31	2.0	.....	6.3	32.5	.....	14.8	.....	3.5	.....	5.9	4.0	.....
1876.												
1	3.5	2.8	6.2	21.1	13.7	7.0	12.2	7.6	8.1	6.8	4.4	2.5
2	3.2	2.4	5.8	23.4	13.8	6.7	13.2	9.0	7.8	6.2	4.6	2.4
3	3.2	2.4	5.7	15.6	13.8	6.4	13.5	12.2	7.7	6.4	5.2	3.0
4	3.2	2.4	5.8	12.8	12.8	6.2	12.1	13.2	8.0	6.7	4.8	2.9
5	3.0	2.4	6.5	11.1	12.5	6.0	10.8	12.1	8.2	7.0	4.6	2.5
6	3.0	2.8	7.6	10.0	11.9	5.8	9.6	10.2	8.4	7.1	6.0	2.2
7	4.1	3.2	8.9	9.0	10.2	5.6	8.8	10.0	8.4	7.7	5.7	2.1
8	5.6	4.0	8.8	8.1	10.0	5.9	8.2	11.2	7.7	7.2	5.2	2.1
9	5.2	4.7	9.1	7.5	10.2	6.9	7.7	16.4	6.9	7.0	4.9	2.0
10	4.4	5.2	9.0	7.0	10.4	8.0	7.2	20.0	6.1	6.6	4.6	2.0
11	4.0	5.6	8.7	6.8	10.2	7.8	7.0	20.0	5.6	6.3	4.4	2.2
12	3.6	6.4	8.2	6.7	10.4	7.6	6.7	18.2	5.2	6.0	4.5	2.4
13	3.4	6.7	7.6	6.3	11.2	7.1	6.4	15.2	5.0	5.6	4.2	2.5
14	3.1	6.6	7.0	6.0	12.8	7.0	6.8	12.2	4.9	5.2	4.0	2.4
15	3.0	6.4	6.4	5.7	16.8	7.3	10.2	10.4	4.8	4.8	3.7	2.3
16	2.8	6.4	5.9	5.4	20.9	11.0	13.4	9.5	5.4	4.8	3.6	2.2
17	2.8	6.8	5.5	5.2	21.9	19.8	12.1	8.8	10.8	4.8	3.7	2.2
18	2.8	6.5	5.2	5.9	18.8	21.1	11.8	8.1	13.2	4.9	3.8	2.0
19	2.8	5.8	4.8	8.4	16.0	17.8	10.2	7.7	22.0	4.8	3.6	2.0
20	2.7	5.5	4.5	12.7	12.2	14.2	9.2	7.7	23.4	5.1	3.5	1.9
21	2.6	5.2	4.2	14.5	10.4	12.2	8.7	8.0	19.2	4.9	3.4	2.0
22	2.5	6.2	4.2	14.5	9.8	11.1	8.3	7.7	11.8	5.0	3.2	2.6
23	2.5	5.6	4.0	13.1	9.8	10.1	7.2	7.7	11.0	5.2	3.0	2.5
24	2.4	5.0	4.2	11.9	9.3	9.8	6.9	7.2	9.2	4.7	2.9	2.4
25	2.2	6.6	4.9	12.5	8.7	12.8	6.7	6.7	8.1	4.2	2.8	2.4
26	2.2	7.2	7.9	15.7	8.5	16.9	6.5	7.0	8.0	4.0	2.9	2.8
27	2.2	6.8	13.0	14.4	8.0	17.2	6.2	7.2	8.5	3.8	2.9	3.4
28	2.2	6.8	19.2	12.0	7.7	15.9	6.0	8.0	8.1	3.8	2.8	3.1
29	2.2	6.8	27.4	10.6	7.2	15.7	6.2	10.8	7.9	3.6	2.8	2.6
30	2.2	6.6	33.0	12.0	....	15.7	6.7	9.8	7.2	3.4	2.6	2.4
31	2.2	.....	34.2	14.6	.....	13.5	.....	8.8	.....	3.8	2.5	.....

[a] This and all similar headings in this paper indicate the year ending Sept. 30 (climatic year), which includes three months of the preceding calendar year.

Daily gage height, in feet, of Tennessee River at Chattanooga, Tenn.—Cont'd.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1877.												
1	2.2	1.6	2.4	3.2	6.2	3.1	10.5	11.4	3.4	4.0	2.4	1.8
2	2.1	1.5	2.4	2.6	5.8	3.2	8.2	9.8	3.2	3.7	2.2	1.7
3	1.9	1.4	2.4	1.8	5.6	4.4	10.2	8.7	3.2	3.4	2.2	1.5
4	1.8	1.4	2.7	1.7	5.5	6.8	10.6	7.9	3.1	3.1	2.2	1.5
5	1.8	1.5	2.5	2.4	5.7	5.7	9.8	7.4	3.0	2.6	2.1	1.5
6	1.8	1.5	2.0	2.2	5.8	5.5	9.2	7.3	2.9	2.5	2.0	1.4
7	1.7	1.5	1.8	2.7	5.6	5.4	9.5	7.6	2.8	2.4	1.8	2.0
8	1.6	1.5	1.8	4.6	5.2	5.2	13.9	7.6	3.0	2.4	1.8	2.7
9	1.5	1.4	1.8	5.9	5.1	7.0	22.9	7.9	3.1	2.8	1.7	2.5
10	1.5	1.4	1.7	5.7	4.9	12.0	27.9	8.2	3.2	2.8	1.7	2.0
11	1.4	1.4	1.6	5.2	4.6	15.6	28.7	8.1	3.2	2.4	1.7	2.4
12	1.2	1.4	1.5	5.5	4.5	14.8	26.0	8.0	3.5	2.2	1.7	3.2
13	1.2	1.4	1.4	5.8	4.2	13.0	20.5	7.5	3.6	2.2	1.6	3.2
14	1.1	1.2	1.6	10.0	4.2	11.5	17.9	6.9	3.5	2.0	1.6	2.8
15	1.1	1.2	1.8	13.6	4.0	11.6	17.4	6.4	3.5	2.0	1.6	2.2
16	1.1	1.2	1.9	18.0	3.8	9.9	16.8	6.0	3.4	1.9	1.9	2.0
17	1.1	1.4	2.2	21.4	3.8	9.1	15.0	5.8	3.4	2.6	2.2	1.8
18	1.0	1.4	2.2	22.7	3.6	8.8	13.0	5.8	3.4	2.1	2.0	1.8
19	1.0	1.5	2.1	23.6	3.4	8.6	11.9	5.4	3.4	2.1	1.7	1.8
20	1.0	1.7	2.0	22.1	3.4	8.2	12.2	4.9	3.5	3.1	1.5	2.0
21	1.1	1.9	2.0	23.2	3.2	7.7	14.0	4.8	3.6	3.6	1.4	2.6
22	1.1	2.2	1.8	20.4	3.2	7.4	15.2	4.8	4.1	3.7	1.3	2.7
23	1.5	2.2	1.8	27.0	3.2	7.1	15.7	4.8	5.1	3.6	1.3	3.0
24	2.0	2.5	2.2	24.0	3.2	6.9	14.0	4.4	4.9	4.1	1.4	2.8
25	3.4	3.4	2.4	18.6	3.4	6.7	11.6	4.2	4.1	5.2	1.5	2.6
26	3.2	3.9	2.8	13.0	3.4	7.8	9.8	4.0	3.7	4.7	2.5	2.2
27	2.6	3.5	3.0	10.9	3.2	10.0	9.4	3.8	3.4	4.7	2.4	2.2
28	2.4	3.1	3.0	9.5	3.1	13.8	12.5	3.8	3.2	4.2	2.4	2.2
29	2.2	2.7	3.2	8.2	.....	16.7	14.4	3.6	3.5	3.6	2.1	2.2
30	1.8	2.5	3.0	7.5	.....	15.5	12.5	3.6	4.0	3.2	1.9	1.8
31	1.7	.....	3.4	6.8	.....	12.2	.....	3.5	.....	2.7	1.7	.....
1878.												
1	1.6	2.2	7.2	8.7	11.6	8.5	4.9	6.8	4.1	2.2	2.8	4.0
2	1.5	2.7	6.4	10.1	11.5	7.5	4.7	6.2	3.6	2.2	3.6	3.7
3	1.4	6.1	5.6	9.1	10.2	7.2	4.5	6.0	3.4	2.5	3.2	3.5
4	1.2	7.5	5.2	7.8	8.9	7.2	4.2	6.0	3.2	2.7	3.1	3.5
5	1.2	6.2	5.2	7.2	8.0	8.1	4.4	5.7	3.1	2.5	2.8	3.2
6	1.5	5.6	6.2	6.5	7.2	7.9	4.7	6.5	3.0	2.2	2.5	2.6
7	2.2	5.2	7.4	5.9	6.8	7.7	4.9	6.9	3.1	2.1	2.0	2.1
8	4.0	5.0	7.2	5.4	7.1	7.2	5.0	7.2	3.0	2.0	1.8	1.9
9	3.2	4.5	6.6	4.9	8.1	6.9	5.0	7.4	2.9	2.1	1.6	1.6
10	3.4	4.2	6.2	5.2	11.6	6.6	5.2	6.9	3.2	2.2	1.4	1.4
11	3.2	4.9	5.6	6.7	13.2	6.4	6.8	6.4	3.4	2.4	1.2	1.2
12	2.9	5.5	5.2	9.0	12.5	6.4	8.0	5.9	3.2	2.4	1.2	1.1
13	2.8	5.2	4.9	11.2	11.0	7.4	8.0	5.5	3.2	2.2	1.4	1.0
14	2.5	4.5	4.6	12.5	9.4	8.9	7.1	5.1	3.2	2.1	1.6	.9
15	2.2	4.1	4.2	11.4	8.2	10.1	6.5	4.9	3.2	2.1	2.1	.9
16	2.0	3.8	4.2	10.0	7.8	10.6	6.1	4.8	3.2	2.1	2.0	10.6
17	1.9	3.7	3.9	8.9	7.5	9.1	5.8	4.7	2.9	2.2	4.0	8.2
18	1.6	3.8	3.8	8.2	7.1	8.2	5.6	4.7	2.8	2.0	3.7	5.6
19	1.6	3.5	3.6	7.5	6.8	7.2	5.3	5.2	2.7	2.1	3.0	4.0
20	1.7	3.4	3.5	7.0	6.6	6.0	6.1	5.9	2.6	1.9	2.7	3.1
21	2.3	3.4	3.4	6.6	6.9	6.2	6.2	7.0	2.8	1.8	2.4	2.7
22	2.7	5.2	3.2	6.4	9.0	5.8	6.1	7.0	2.7	1.6	2.0	2.2
23	3.2	6.8	3.2	6.6	11.6	5.5	5.8	5.8	2.7	1.6	2.9	2.0
24	3.2	7.9	3.4	6.7	17.5	5.2	6.6	5.1	3.2	1.5	4.2	1.9
25	3.2	9.8	4.4	6.6	19.2	5.0	9.5	4.7	3.0	1.2	3.8	2.0
26	2.8	14.1	7.0	6.5	15.8	4.9	9.2	4.3	2.7	1.2	2.0	2.1
27	2.6	15.0	7.8	6.5	12.4	4.6	8.5	4.1	2.6	1.2	2.2	1.9
28	2.3	13.4	7.5	6.4	10.7	4.6	8.4	4.0	2.4	1.1	2.4	1.9
29	2.3	10.6	7.2	6.9	.....	4.9	8.2	4.1	2.4	1.2	2.8	1.8
30	2.3	8.6	7.8	7.2	.....	5.2	7.6	4.5	2.2	1.4	3.2	1.7
31	2.3	.....	8.5	9.7	.....	5.2	.....	4.6	.....	2.5	4.1	.....

Daily gage height, in feet, of Tennessee River at Chattanooga, Tenn.—Cont'd.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1879.												
1	1.5	3.2	14.5	5.7	11.7	11.0	5.8	4.3	3.3	1.1	2.2	2.4
2	1.2	3.5	13.2	6.3	11.6	10.6	7.4	4.3	3.3	1.2	3.9	2.2
3	1.2	3.4	12.2	7.6	10.0	9.6	8.4	4.2	3.0	1.2	4.1	2.1
4	1.1	3.5	11.7	7.5	9.6	8.5	8.5	4.1	2.8	1.2	4.3	2.2
5	1.0	3.2	11.0	6.2	8.3	7.7	7.2	3.9	2.7	1.2	4.0	2.2
6	1.0	2.9	9.7	5.6	9.3	7.1	6.5	3.8	2.6	1.2	3.3	2.6
7	1.1	2.6	8.0	4.2	11.1	6.7	6.2	5.2	2.4	1.1	3.2	2.8
8	1.1	2.4	6.8	4.3	11.1	6.3	5.8	6.4	2.3	1.0	2.9	2.5
9	1.2	2.2	6.2	8.1	10.0	6.0	5.7	5.8	2.2	.9	2.9	2.1
10	1.5	2.2	7.5	20.3	10.0	5.9	6.2	4.8	2.0	.9	2.8	1.9
11	1.6	2.0	9.2	23.9	9.0	5.6	8.0	4.3	2.1	1.0	2.9	1.5
12	1.6	1.9	10.9	27.5	8.3	5.5	9.8	3.9	2.2	1.0	2.6	1.4
13	1.6	1.8	9.9	32.8	8.1	5.0	8.2	3.6	2.4	1.0	2.5	1.3
14	1.7	1.8	10.5	37.7	7.8	5.2	7.4	3.5	2.7	1.0	2.2	1.2
15	1.9	1.9	10.0	38.0	7.3	5.2	6.8	3.9	2.8	.9	1.9	1.2
16	1.9	2.0	11.0	37.6	6.8	5.0	6.7	3.9	2.7	.9	1.8	1.0
17	1.9	2.0	11.7	27.8	7.6	4.9	7.9	4.0	2.9	1.1	2.1	1.0
18	1.8	2.0	10.8	17.1	14.6	4.9	8.3	5.2	2.5	1.0	2.0	1.0
19	1.6	2.0	9.9	14.0	18.8	4.8	8.2	5.8	2.3	1.0	1.7	.9
20	1.6	2.2	8.6	14.5	17.1	4.7	8.0	6.0	2.0	1.0	1.7	.9
21	1.6	2.2	7.5	14.0	13.9	4.5	8.0	5.9	1.6	1.3	1.2	.8
22	1.6	2.4	7.0	12.8	11.5	4.7	7.4	5.8	1.5	1.2	1.3	.8
23	1.7	2.2	8.2	10.9	10.5	6.4	7.0	5.7	1.4	1.0	1.8	.7
24	1.8	2.5	8.7	9.3	10.6	6.8	6.5	4.7	1.3	.9	2.6	.6
25	2.1	2.7	9.0	8.6	12.1	6.8	6.0	4.5	1.3	1.0	2.8	.5
26	5.6	3.2	8.2	7.9	12.1	6.9	5.2	4.2	1.3	.8	3.3	.5
27	7.0	8.0	7.2	7.4	12.0	6.8	4.9	3.6	1.2	.9	4.0	.4
28	5.4	10.0	6.2	7.0	11.5	6.6	4.7	3.3	1.1	1.2	4.1	.4
29	4.4	18.0	5.5	6.9	.....	6.4	4.6	3.1	1.0	1.7	3.9	.4
30	3.7	16.0	5.1	7.6	.....	6.2	4.4	3.0	1.0	1.9	3.4	.4
31	3.2	.....	5.4	8.2	.....	5.8	.....	3.1	.....	1.8	2.8	.....
1880.												
1	.3	2.4	5.5	7.9	4.2	9.0	7.9	14.5	5.5	3.2	1.8	2.4
2	.3	2.3	4.8	7.2	4.3	8.1	7.6	14.5	5.7	3.0	1.7	2.2
3	.3	2.2	4.5	6.6	5.0	7.6	9.0	13.0	6.0	3.4	1.8	2.1
4	.3	2.0	4.0	6.0	6.2	9.3	14.5	11.7	6.2	5.3	1.9	2.4
5	.2	1.9	3.7	5.6	6.7	13.7	16.9	9.9	5.5	7.8	2.6	2.9
6	.2	1.8	3.7	5.4	6.2	17.0	15.5	8.7	5.2	6.8	2.8	3.1
7	.2	1.7	4.8	6.5	5.8	15.8	13.0	8.0	4.8	5.8	2.6	3.1
8	.2	1.6	4.8	7.8	5.4	15.6	12.3	7.5	4.4	5.6	4.3	2.9
9	.2	1.6	4.7	9.5	5.0	19.0	10.9	6.8	4.2	4.7	4.2	2.8
10	.2	1.5	4.4	10.6	4.6	24.5	9.6	6.4	4.0	4.2	4.2	2.4
11	1.3	1.6	6.9	10.0	4.4	28.0	8.6	6.0	3.7	3.9	4.6	2.8
12	1.6	2.0	14.6	9.6	4.4	28.4	8.8	5.9	3.5	3.6	3.9	3.2
13	2.2	2.1	15.0	8.9	5.4	28.7	7.8	5.8	3.5	3.3	3.7	3.7
14	1.9	2.1	12.2	8.0	12.4	28.6	7.0	5.6	3.4	3.2	3.8	3.8
15	1.7	2.1	13.8	7.6	22.9	28.6	6.5	5.4	3.2	3.0	4.3	3.5
16	1.3	2.0	17.9	7.0	26.8	31.9	8.1	5.2	3.0	2.9	3.6	3.2
17	1.3	2.1	17.8	6.5	26.8	35.0	11.1	4.8	2.9	4.4	3.7	2.9
18	1.7	2.8	15.6	6.2	19.8	38.3	12.2	4.6	2.8	3.8	3.0	2.8
19	6.4	4.3	12.4	6.0	12.0	37.6	11.5	4.3	2.8	3.8	2.8	2.2
20	13.4	4.9	9.9	5.8	9.5	35.7	10.6	4.2	2.8	2.8	2.6	2.0
21	11.0	4.6	8.0	5.6	8.6	28.0	11.3	4.2	2.7	2.4	2.4	1.8
22	9.3	4.2	7.2	5.4	7.9	21.0	11.9	4.2	2.5	2.5	3.4	1.6
23	7.4	3.4	8.6	5.6	7.4	16.6	10.6	5.1	2.4	2.6	3.6	1.4
24	5.7	3.0	17.0	5.4	6.9	13.9	9.7	5.6	2.3	2.9	3.8	1.5
25	5.7	2.7	21.2	5.2	6.4	12.0	9.0	5.8	2.3	3.2	4.0	1.4
26	4.1	2.5	21.9	4.8	6.0	10.7	10.1	7.7	2.3	3.1	4.3	1.4
27	3.8	2.3	21.6	4.6	7.5	9.7	13.0	7.4	2.2	3.0	4.6	1.5
28	3.4	2.3	17.8	4.5	9.3	9.2	14.0	6.6	2.2	2.7	4.8	2.0
29	3.0	2.9	14.4	4.3	9.2	8.8	12.6	5.9	2.2	2.4	2.8	3.1
30	2.9	4.9	11.4	4.2	.....	8.6	13.7	5.6	2.8	2.2	2.7	4.0
31	2.6	.....	9.4	4.2	.....	8.2	.....	5.6	.....	2.0	2.6	.....

Daily gage height, in feet, of Tennessee River at Chattanooga, Tenn.—Cont'd.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1881.												
1	3.4	1.2	17.5	4.4	5.9	9.0	8.0	8.8	3.3	2.1	1.0	0.1
2	3.0	1.2	23.4	3.2	6.5	8.8	8.3	8.0	3.4	2.1	.9	.5
3	2.7	1.5	26.5	2.4	10.3	8.1	8.4	7.5	3.6	2.5	.8	.9
4	2.3	2.2	22.0	3.7	11.0	7.7	8.1	7.0	4.4	3.6	.7	1.1
5	2.2	2.0	15.9	4.3	10.2	7.2	7.7	6.9	4.5	3.6	.6	.9
6	1.9	2.2	15.4	6.4	8.8	7.0	7.2	7.2	4.2	3.1	.6	.
7	1.8	2.4	18.1	9.1	7.6	6.6	7.0	7.2	3.9	2.6	.8	.4
8	1.7	2.4	17.4	10.8	7.7	6.9	7.0	6.9	3.9	2.3	.9	.2
9	1.6	2.5	14.6	11.8	9.9	6.8	6.9	6.6	4.0	2.0	1.6	.1
10	1.5	2.9	11.2	11.9	13.6	6.4	7.8	6.4	5.0	1.8	1.1	.1
11	1.4	3.8	8.8	11.8	16.9	6.2	8.7	6.4	5.1	1.6	3.3	.0
12	1.4	4.2	7.5	12.6	19.7	6.1	9.9	5.8	4.6	1.4	3.0	.0
13	1.3	4.2	6.7	11.8	22.4	6.2	12.2	5.5	4.0	1.4	2.3	.0
14	1.2	4.1	6.1	11.2	21.7	6.1	15.8	5.2	3.6	1.6	2.3	.0
15	1.2	4.2	5.7	10.1	18.0	6.1	18.0	5.1	3.6	1.8	1.3	.2
16	1.0	3.7	5.5	9.7	14.7	.....	17.9	4.8	4.0	2.0	1.1	.2
17	1.2	3.4	6.0	9.3	12.0	8.9	16.0	4.6	3.9	2.0	1.0	.2
18	1.2	3.0	5.8	8.6	10.1	10.6	12.8	4.4	3.4	2.1	.6	1.4
19	1.3	2.7	7.3	8.0	10.4	13.9	10.8	4.2	3.3	2.0	1.1	5.0
20	1.2	2.4	7.2	8.6	12.4	19.3	9.7	4.1	2.8	1.8	.7	5.0
21	1.2	2.3	7.0	13.0	14.4	19.2	8.8	4.0	2.6	2.7	.8	11.5
22	1.1	2.2	6.6	17.4	14.4	15.2	8.0	3.8	2.6	2.2	.8	8.0
23	1.1	2.0	6.1	18.8	13.8	12.9	7.9	3.8	3.2	1.8	.5	5.8
24	1.0	1.8	5.8	17.4	11.2	11.4	8.0	3.9	3.0	1.4	.5	4.2
25	1.1	1.8	5.5	15.4	9.7	10.0	8.4	3.9	2.8	1.3	.6	3.4
26	1.1	1.7	5.6	11.3	8.9	9.2	9.0	4.0	2.5	1.6	.6	2.3
27	1.0	1.7	6.0	9.2	8.0	8.7	10.8	3.8	2.3	1.8	.5	2.6
28	1.0	2.3	6.0	8.0	8.7	9.0	11.8	3.6	2.2	1.7	.3	2.6
29	1.1	7.1	5.8	7.0	.....	8.8	10.5	3.4	2.2	1.7	.5	2.8
30	1.0	13.5	5.4	6.5	.....	8.3	9.0	3.3	2.2	1.4	.4	3.0
31	1.1	.....	4.6	6.1	.....	8.1	.....	3.2	.....	1.2	.2	.....
1882.												
1	2.8	6.8	5.0	15.8	29.9	13.2	11.2	6.9	8.4	4.6	4.0	5.6
2	2.7	9.8	5.0	14.1	29.4	19.1	9.9	6.5	8.8	6.0	4.3	5.9
3	2.4	9.2	6.1	11.9	20.0	22.0	8.9	6.0	10.0	6.3	4.8	6.3
4	2.2	8.4	6.1	10.1	18.2	20.0	8.4	5.6	9.1	6.1	6.2	5.4
5	1.7	6.6	5.9	8.9	22.2	17.7	7.9	5.2	8.6	5.9	6.1	5.2
6	1.3	5.3	5.8	9.4	24.4	14.8	7.4	5.0	8.0	6.9	6.3	4.8
7	1.2	4.6	5.4	13.5	23.0	13.3	7.2	5.3	7.9	6.6	6.0	4.2
8	1.1	4.6	4.9	21.5	19.6	13.4	7.4	5.2	6.5	5.6	5.4	3.8
9	1.0	4.2	4.6	26.8	18.6	15.8	8.0	5.1	5.7	4.9	4.9	4.1
10	.9	6.0	4.2	29.5	20.0	18.9	8.5	4.9	5.3	4.3	4.7	4.2
11	.9	6.2	3.8	29.8	22.7	21.1	9.7	6.2	4.9	3.9	4.4	5.4
12	.8	6.4	3.7	29.9	23.4	17.3	9.5	5.7	4.7	3.8	4.1	12.1
13	.8	6.6	3.4	30.3	23.6	15.5	8.8	5.2	4.5	3.9	3.9	21.8
14	.8	6.8	4.3	30.6	22.0	14.8	9.2	6.8	4.7	4.2	3.7	22.8
15	.7	6.6	11.8	30.3	20.5	13.5	7.6	5.9	5.0	5.0	3.4	17.2
16	.7	5.9	17.4	30.2	21.3	11.2	7.2	5.7	4.8	6.5	3.2	10.8
17	.6	5.2	16.8	33.6	22.0	9.9	7.0	5.3	4.7	5.9	3.2	7.7
18	.6	4.6	15.3	37.6	20.5	10.1	6.5	5.3	5.7	4.8	4.0	6.4
19	.5	4.0	12.0	40.2	18.2	11.5	6.1	5.0	7.9	4.1	5.2	5.5
20	.6	3.7	8.8	40.1	16.7	10.2	5.8	4.6	8.1	4.0	5.1	4.8
21	.5	3.4	7.9	39.2	15.5	9.8	5.6	4.5	7.2	4.3	4.6	4.4
22	.4	3.2	15.4	38.8	14.3	9.9	5.5	5.1	6.4	4.3	3.8	4.5
23	.8	3.4	20.2	38.8	13.6	9.8	8.1	5.6	6.0	4.2	3.2	4.0
24	1.0	6.0	18.4	37.7	12.7	9.8	10.2	5.7	6.1	4.0	2.8	3.8
25	1.0	9.8	15.6	34.5	11.6	9.4	10.1	5.8	6.2	3.7	2.5	3.6
26	.9	9.7	14.8	27.3	10.6	8.8	9.5	5.6	6.3	3.4	2.4	3.4
27	1.1	10.0	14.2	18.2	9.7	8.7	9.0	6.8	6.1	3.3	2.8	3.2
28	1.2	8.6	14.9	14.8	9.3	10.4	8.2	6.6	5.1	3.4	3.0	3.0
29	1.3	6.5	15.7	21.2	.....	13.3	7.7	7.5	5.0	3.6	3.8	2.9
30	2.0	5.6	16.9	29.5	.....	13.6	7.2	8.7	4.7	3.7	4.2	2.9
31	3.1	.....	16.6	30.3	.....	12.6	.....	8.7	.....	3.4	4.7	.....

Daily gage height, in feet, of Tennessee River at Chattanooga, Tenn.—Cont'd.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1883.												
1	3.0	2.4	4.7	4.5	9.4	7.9	15.1	11.0	3.8	4.1	1.5	1.5
2	2.8	2.7	4.2	4.4	9.0	7.3	24.2	10.3	3.8	4.0	1.4	1.3
3	2.8	2.9	3.7	4.1	8.1	6.9	25.2	9.2	3.5	3.6	1.5	1.1
4	2.7	2.7	3.3	3.8	7.6	6.6	23.6	8.4	3.3	3.3	1.6	.9
5	2.6	2.5	3.0	3.9	7.5	6.2	16.8	7.8	3.2	3.0	1.9	.8
6	2.6	2.2	2.8	4.5	7.8	6.0	12.7	7.3	3.4	2.9	1.6	.7
7	2.5	2.0	2.7	7.4	9.4	6.5	13.8	6.9	3.7	2.7	1.5	.6
8	2.4	1.9	2.5	11.3	10.9	8.3	16.2	6.6	4.8	2.7	1.7	.5
9	2.2	1.8	2.2	12.8	14.8	9.7	17.0	6.2	5.4	2.8	2.0	.4
10	2.2	1.8	2.2	12.4	17.6	9.8	16.9	6.0	5.3	2.9	1.9	.4
11	2.0	1.7	2.3	11.3	16.4	9.3	17.0	5.9	5.1	2.9	1.6	.3
12	1.9	1.7	3.7	9.4	14.5	8.5	17.4	5.9	4.7	3.2	1.3	.2
13	1.8	1.8	3.4	8.3	13.3	8.2	18.3	5.8	5.6	4.0	1.2	.2
14	1.8	2.0	3.3	9.5	13.5	7.9	18.7	5.6	6.0	4.0	1.3	.1
15	1.8	2.7	3.4	14.4	13.1	7.1	17.2	5.4	6.9	3.6	1.4	.1
16	1.8	2.8	3.3	16.6	11.8	6.7	15.0	5.4	6.5	3.5	1.5	.1
17	1.8	2.7	3.1	15.8	10.8	6.4	14.0	5.4	5.8	3.2	2.4	.1
18	1.7	2.6	2.9	17.0	10.0	6.1	15.1	5.2	5.0	2.8	2.3	.1
19	1.8	2.4	2.5	19.8	9.9	5.8	15.6	4.9	4.5	3.0	2.6	.0
20	2.0	2.2	2.6	22.6	10.4	5.6	14.7	4.8	4.1	2.8	2.5	.1
21	2.9	2.3	3.4	30.1	10.4	5.5	12.6	4.5	3.7	2.3	2.1	.2
22	4.3	2.6	4.4	35.2	9.8	5.4	11.1	4.5	3.6	2.1	1.8	.5
23	4.0	2.6	6.7	38.2	9.1	5.2	17.6	4.5	3.5	1.8	1.6	.7
24	3.4	2.5	9.1	37.9	8.8	5.0	26.8	4.6	3.8	1.6	1.4	1.7
25	3.2	2.2	10.0	33.0	9.2	5.0	31.4	4.5	4.6	1.6	1.4	2.0
26	2.7	2.0	9.2	22.2	9.3	5.8	32.5	4.4	4.2	1.6	1.3	1.9
27	2.2	2.0	8.1	13.7	9.1	6.3	28.6	4.3	3.9	1.8	1.7	2.3
28	2.1	2.1	7.1	11.0	8.4	6.3	19.8	4.3	4.2	2.0	1.3	2.5
29	2.0	3.1	5.9	10.0	.....	6.4	13.8	4.3	4.1	1.8	1.3	2.2
30	1.9	4.2	5.3	9.7	.....	6.3	11.9	4.0	4.2	1.5	1.5	1.9
31	2.0	.....	4.9	9.6	.....	7.4	.....	3.9	.....	1.4	1.6	.....
1884.												
1	1.5	3.3	4.3	6.6	11.5	9.5	11.5	10.1	4.1	8.3	6.1	3.2
2	1.2	3.5	3.9	6.4	19.5	9.1	10.6	9.2	3.9	7.3	9.3	2.7
3	1.6	3.1	3.5	6.1	24.6	8.6	10.1	8.9	3.8	6.8	7.2	2.2
4	1.3	2.7	3.1	5.9	25.5	8.2	9.9	9.0	3.8	7.0	5.5	2.0
5	1.4	2.1	2.9	5.5	20.4	7.9	9.4	8.9	3.5	6.7	6.0	1.7
6	1.8	1.8	2.7	5.1	13.7	15.4	8.8	10.2	3.4	6.5	5.1	1.5
7	1.7	1.6	2.5	4.5	13.3	29.3	8.2	11.4	5.0	6.5	4.0	1.3
8	2.8	1.4	2.5	3.9	21.7	36.7	9.0	10.5	5.4	6.0	3.5	1.2
9	6.1	1.4	3.0	3.5	30.4	40.9	8.5	9.4	5.4	5.8	3.2	1.3
10	4.8	1.3	3.0	3.4	35.1	42.8	7.3	8.4	5.2	5.0	3.1	1.5
11	3.7	1.4	4.1	3.6	36.8	42.3	7.0	7.9	5.9	4.9	3.2	1.6
12	2.8	1.8	3.7	5.1	36.4	40.2	6.8	7.0	7.3	5.1	3.5	1.5
13	2.3	2.6	3.6	8.7	34.0	37.3	6.5	6.9	8.4	5.9	3.5	1.5
14	1.8	3.3	3.3	9.4	31.0	35.7	6.6	6.4	8.6	5.6	3.4	1.3
15	1.6	3.4	3.2	10.0	29.6	33.6	9.5	6.2	8.8	5.0	3.2	1.2
16	1.3	2.9	3.3	12.0	28.7	30.2	14.5	6.0	8.5	4.8	3.1	1.1
17	1.1	2.5	3.5	12.9	26.7	24.9	16.9	5.8	7.0	4.2	2.8	1.0
18	1.1	2.2	3.2	12.1	25.1	19.9	15.1	5.5	6.3	3.8	2.5	1.0
19	1.0	2.1	3.2	12.4	25.5	17.6	13.1	5.2	6.0	4.2	2.2	1.0
20	.9	1.8	3.3	13.8	27.0	18.6	11.2	5.2	5.3	4.2	2.0	.9
21	.9	1.6	5.1	14.8	26.9	22.4	10.0	4.9	4.7	4.0	1.9	.9
22	.9	2.1	5.5	13.7	23.2	25.8	11.4	5.0	4.2	3.5	2.0	.8
23	.9	6.2	5.3	12.0	18.7	27.6	13.6	5.0	4.1	3.2	1.9	.8
24	1.2	9.9	5.7	11.0	15.7	27.1	13.8	4.7	4.2	2.9	2.0	.8
25	1.5	10.9	7.0	11.2	13.3	24.0	15.1	4.8	4.1	2.6	2.2	.7
26	1.8	9.3	10.7	10.8	11.7	21.0	15.4	4.8	4.2	2.8	2.2	.7
27	1.5	7.6	12.8	9.3	10.3	20.5	13.6	4.8	5.0	3.0	2.0	.7
28	1.3	6.1	13.0	8.6	9.8	19.9	12.1	5.4	10.8	3.2	1.8	.6
29	1.5	5.3	10.3	7.9	9.6	19.2	11.6	5.2	11.4	3.9	1.8	.6
30	1.7	4.8	7.9	7.5	.....	16.0	11.4	4.6	10.0	4.1	1.9	.6
31	2.2	.....	7.0	7.5	.....	13.1	.....	4.3	.....	3.9	2.1	.....

Daily gage height, in feet, of Tennessee River at Chattanooga, Tenn.—Cont'd.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1885.												
1	0.6	1.2	1.5	3.6	7.9	8.5	6.3	4.6	18.6	5.5	3.1	1.5
2	.7	1.2	1.5	3.7	7.2	8.1	6.1	4.5	16.9	4.7	3.0	1.6
3	.7	1.1	1.3	3.9	6.9	7.9	5.9	4.5	12.8	4.0	2.8	1.8
4	.6	1.1	1.2	3.9	6.7	7.8	5.9	4.5	9.5	3.6	2.9	1.8
5	.5	1.0	1.1	3.6	6.4	7.8	6.0	4.5	7.7	3.5	3.1	1.6
6	.5	1.0	1.1	3.9	6.3	7.5	6.4	4.3	6.6	3.7	3.5	1.4
7	.5	1.0	1.1	5.5	6.3	6.9	6.0	4.2	5.8	3.0	3.2	1.4
8	.4	1.0	1.2	6.8	6.5	6.3	5.8	4.0	5.8	3.4	2.9	1.5
9	.4	1.0	1.8	6.9	6.8	5.9	5.6	5.6	5.4	4.3	2.9	1.5
10	.4	.8	2.1	6.6	7.7	5.6	5.4	6.0	5.4	3.9	3.2	1.5
11	.4	.7	2.3	6.1	8.8	5.3	5.2	5.8	5.4	3.6	2.9	1.4
12	.3	.7	2.2	9.2	9.6	5.0	5.0	5.6	5.1	3.5	2.5	1.3
13	.3	.7	2.0	16.0	9.4	5.1	4.8	5.0	4.8	3.0	2.5	1.2
14	.3	.7	2.3	17.6	9.0	5.6	4.6	4.6	4.6	3.2	2.4	1.2
15	.2	.7	3.7	14.8	7.9	7.0	4.4	4.3	4.3	3.4	2.8	1.1
16	.2	.7	4.1	16.0	7.3	7.4	4.2	4.0	4.0	3.7	4.4	1.1
17	.2	.6	4.5	22.5	6.8	8.6	4.1	3.8	4.0	4.5	4.2	1.0
18	.2	.7	4.2	20.5	6.6	9.2	4.5	3.7	4.2	4.4	3.6	1.0
19	.2	.7	4.1	24.5	6.0	8.6	6.4	3.5	4.7	3.7	3.2	.9
20	.2	.8	3.6	18.4	6.0	7.8	12.7	3.4	4.6	3.1	2.8	.7
21	.2	1.0	3.5	14.4	5.8	7.1	15.5	3.5	4.6	2.8	2.6	1.8
22	.2	1.0	9.0	10.4	5.4	6.7	10.8	4.5	4.1	2.9	2.2	2.2
23	.2	1.0	12.6	8.3	5.0	6.2	8.0	4.6	4.0	2.9	2.1	2.2
24	.3	.9	12.5	8.4	5.0	6.0	6.8	5.0	4.0	2.9	1.9	2.2
25	.4	.9	10.7	11.4	6.0	5.7	6.0	5.6	3.8	2.8	1.8	1.9
26	.6	1.3	9.8	15.6	7.6	5.4	5.6	6.2	3.5	2.8	1.7	1.9
27	.7	1.8	7.0	14.9	8.4	5.2	5.2	6.8	3.4	2.8	1.6	1.6
28	.8	1.7	5.6	13.4	8.5	5.1	5.0	8.0	3.6	3.1	1.4	1.4
29	.8	1.8	4.8	11.8	.....	5.2	4.8	8.3	4.4	3.4	1.4	1.3
30	1.0	1.5	4.2	10.1	.....	5.8	4.7	10.3	4.9	3.8	1.3	1.5
31	1.0	.....	3.8	8.8	.....	6.3	.....	14.0	.....	3.4	1.3	.....
1886.												
1	2.7	16.2	5.0	5.1	10.0	10.0	47.1	6.4	7.6	7.0	4.4	3.4
2	3.6	14.0	4.6	5.2	9.3	9.4	51.0	6.5	7.8	6.8	4.2	3.3
3	7.6	11.0	5.3	8.1	8.5	9.0	52.2	6.7	8.3	9.8	5.0	3.3
4	6.1	8.2	5.8	18.0	8.0	7.5	50.3	6.7	8.0	11.6	5.6	3.2
5	5.0	6.8	6.0	22.1	7.6	7.0	45.6	7.3	8.0	11.3	6.0	3.2
6	4.6	6.5	5.8	21.8	7.2	6.8	41.4	7.8	8.3	11.0	6.6	3.2
7	3.7	11.0	5.7	20.3	7.0	6.2	39.7	8.9	8.2	12.5	7.0	3.0
8	3.0	25.0	5.4	19.5	6.2	6.0	39.3	9.0	8.0	13.0	7.1	2.9
9	2.7	30.4	6.0	14.5	5.8	5.8	38.2	9.3	9.0	13.6	6.7	2.7
10	2.3	29.0	8.7	12.3	5.5	5.5	33.9	10.0	10.1	13.8	6.4	2.6
11	2.1	25.7	10.8	8.8	6.8	5.4	24.0	10.5	10.6	11.0	6.0	2.5
12	2.0	18.4	8.2	.....	9.0	5.0	16.4	10.8	13.0	10.0	5.8	2.5
13	2.3	12.5	8.4	.....	12.6	5.2	13.9	9.5	13.6	9.4	5.5	2.5
14	2.6	9.7	15.8	.....	13.1	5.4	12.0	8.8	14.0	9.0	5.4	2.4
15	6.1	8.6	20.8	6.2	11.6	5.8	10.5	8.2	12.0	8.0	5.0	2.8
16	6.1	7.6	21.4	7.3	10.6	6.0	9.8	7.8	10.5	8.2	4.8	3.0
17	5.0	6.9	19.4	9.9	9.4	5.8	9.0	6.4	10.3	8.0	4.8	3.1
18	4.1	6.4	18.0	12.4	8.5	5.5	8.9	6.0	10.6	7.7	4.6	3.0
19	3.6	6.0	11.2	12.6	8.0	5.4	8.5	5.7	11.2	7.4	4.5	2.9
20	3.8	5.9	10.2	12.7	7.2	5.0	8.3	7.6	10.8	7.0	4.4	2.8
21	3.1	5.6	9.1	12.8	6.8	8.4	8.1	8.3	10.6	6.5	4.3	2.6
22	4.4	5.4	7.4	12.9	6.5	12.4	7.8	9.8	12.2	6.1	4.1	2.4
23	3.3	5.4	6.1	14.0	6.2	14.5	7.4	10.5	10.0	5.8	4.0	2.3
24	2.3	6.0	6.4	15.0	6.0	14.3	6.9	9.0	14.0	5.5	4.0	2.3
25	2.8	6.0	6.2	14.4	5.8	11.9	6.7	8.4	12.8	5.4	4.5	2.2
26	2.7	5.8	6.1	13.8	6.8	9.2	6.5	8.8	11.6	5.2	5.2	2.1
27	2.4	5.2	5.9	12.5	7.4	8.5	6.4	9.2	9.6	5.0	4.4	2.0
28	2.4	4.8	5.8	12.4	10.0	11.8	6.4	8.8	8.5	4.9	3.8	2.0
29	4.6	4.8	5.4	11.6	.....	17.0	6.1	8.4	8.0	4.7	3.6	2.0
30	9.9	4.4	5.1	10.4	.....	30.5	6.0	8.2	7.2	4.6	3.5	2.0
31	15.5	.....	5.0	10.3	.....	40.5	.....	7.8	.....	4.6	3.5	.....

Daily gage height, in feet, of Tennessee River at Chattanooga, Tenn.—Cont'd.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1887.												
1	1.9	1.7	6.5	11.0	16.2	27.3	5.2	6.6	6.8	3.6	3.6	4.6
2	1.9	1.6	5.6	10.5	12.7	20.0	5.2	6.2	8.0	3.5	3.4	3.4
3	1.8	1.5	5.0	10.0	10.3	17.1	5.1	6.0	9.1	3.4	3.3	3.0
4	1.8	1.5	4.8	9.0	14.1	14.5	5.0	5.8	9.5	3.4	3.5	2.8
5	1.8	1.4	4.5	8.2	19.0	11.2	5.0	5.7	9.4	3.4	3.4	2.6
6	1.8	1.4	4.5	7.5	21.0	9.2	5.0	5.6	9.3	3.3	10.6	2.4
7	1.8	1.4	5.1	7.0	21.8	8.0	5.0	5.6	10.1	3.7	9.1	2.2
8	1.7	1.4	5.2	6.4	15.2	7.4	5.0	5.6	10.4	4.6	8.2	2.2
9	1.6	1.6	5.2	6.0	11.9	16.0	4.9	5.9	9.7	5.4	7.7	2.1
10	1.6	1.5	4.6	5.8	10.9	21.7	4.9	5.5	9.5	5.6	6.3	2.0
11	1.6	1.4	4.2	5.6	9.7	24.0	4.9	5.4	8.9	5.0	5.7	2.0
12	1.6	1.4	4.0	5.3	9.7	19.4	4.8	5.4	8.5	4.4	5.0	1.8
13	1.6	1.4	7.0	5.0	9.2	14.3	4.8	5.3	7.0	3.8	4.5	1.7
14	1.5	1.4	8.2	5.0	8.6	10.3	4.7	5.3	5.9	3.1	4.2	1.7
15	1.4	1.8	9.0	5.5	9.0	9.8	4.7	5.2	5.5	2.8	3.9	1.6
16	1.4	2.0	9.6	6.2	12.8	8.9	4.6	5.1	5.2	2.5	3.8	1.5
17	1.4	2.4	11.6	6.8	13.4	8.0	4.6	5.0	5.0	2.3	3.6	1.5
18	1.4	2.8	10.1	7.0	12.4	7.5	4.5	5.0	4.9	2.0	3.6	1.4
19	1.3	5.2	9.0	6.5	11.5	7.0	4.4	4.8	4.8	2.0	4.1	1.3
20	1.3	6.5	14.0	6.1	10.6	6.6	4.3	4.7	4.6	1.9	4.1	1.4
21	1.3	7.5	16.0	5.7	17.0	6.2	4.2	4.7	4.5	2.1	4.3	1.4
22	1.3	6.0	16.6	5.4	19.0	5.9	4.2	4.6	4.5	2.2	4.0	1.4
23	1.2	7.0	11.2	5.1	17.8	5.6	10.0	4.6	4.5	2.6	3.8	1.4
24	1.2	10.6	8.6	13.0	19.0	6.4	15.2	4.6	4.7	3.2	3.7	1.4
25	1.2	12.6	7.0	19.6	23.2	6.1	18.0	5.2	4.8	3.4	3.3	1.3
26	1.2	13.0	6.6	21.8	25.3	5.8	20.0	5.8	4.6	3.2	3.3	1.4
27	1.3	13.4	6.9	20.8	26.8	5.6	21.2	6.0	4.5	3.2	3.6	1.5
28	1.7	13.7	7.9	17.4	27.3	5.5	16.0	6.0	4.0	3.4	4.8	1.9
29	2.0	11.0	10.0	14.0	.....	5.4	11.0	5.5	3.8	3.4	5.8	2.2
30	2.0	10.0	10.6	12.8	.....	5.3	7.3	5.1	3.7	3.5	5.4	2.4
31	1.8	.....	10.7	15.3	.....	5.2	.....	5.0	.....	3.6	4.6	.....
1888.												
1	2.1	2.0	1.7	8.0	5.4	8.0	23.6	4.6	8.3	7.1	2.0	3.5
2	3.4	2.7	1.6	14.5	5.3	7.0	18.1	4.6	8.4	6.0	2.6	6.0
3	3.7	2.4	1.6	14.7	5.2	6.4	14.2	4.6	9.2	5.0	2.4	7.9
4	3.5	2.3	1.6	11.5	5.4	6.0	11.2	4.3	7.9	4.4	2.4	7.0
5	2.8	2.2	1.6	9.7	6.2	5.9	10.1	4.2	7.0	4.0	2.6	6.6
6	2.4	2.1	1.6	8.1	6.8	5.7	8.9	4.2	6.0	3.7	2.8	6.5
7	2.0	2.0	1.7	6.8	7.0	5.5	8.1	4.1	5.4	3.8	2.8	7.5
8	1.7	2.0	1.8	6.1	7.2	5.3	8.1	4.0	5.0	3.8	2.9	7.4
9	1.6	1.9	2.1	5.8	7.5	5.0	8.1	4.1	4.6	3.7	2.8	9.6
10	1.5	1.9	3.2	7.4	8.3	4.9	11.0	4.5	4.4	3.7	2.6	9.4
11	1.5	2.0	3.9	10.2	9.4	5.4	19.7	4.9	4.4	3.5	2.5	9.1
12	1.4	2.0	3.6	10.9	10.9	5.5	22.4	5.0	4.2	3.4	2.9	9.0
13	1.4	2.2	3.6	11.2	11.2	5.9	18.4	5.1	4.0	3.8	3.0	11.2
14	1.3	2.3	4.1	13.2	10.3	5.1	13.9	4.9	4.0	3.7	2.8	10.5
15	1.2	2.1	3.9	14.5	9.5	5.7	11.2	4.9	4.1	3.7	2.8	9.7
16	1.2	2.0	3.6	13.1	9.0	5.6	9.5	4.8	4.0	3.5	2.9	6.0
17	1.2	1.9	3.5	14.9	8.7	5.3	8.4	4.5	4.0	3.1	2.7	8.6
18	1.3	1.9	4.1	21.4	7.5	5.1	7.6	4.4	3.9	3.1	2.2	11.3
19	1.3	1.9	3.9	25.7	6.8	4.9	7.2	4.8	3.8	3.0	2.0	11.5
20	1.4	1.8	3.9	24.8	6.4	4.8	6.9	5.0	3.7	3.5	2.0	10.7
21	1.5	1.8	3.8	20.2	6.6	5.2	6.4	5.0	3.6	2.8	2.2	9.0
22	1.6	1.6	3.8	14.6	6.6	5.7	6.0	5.1	3.6	3.0	2.7	7.4
23	1.6	1.5	3.6	11.0	6.4	6.4	5.8	5.0	3.7	3.0	4.9	6.6
24	1.7	1.5	3.4	9.2	6.3	6.6	5.6	7.8	3.6	3.0	6.2	7.6
25	2.0	1.4	3.9	7.8	9.4	7.2	5.4	9.6	3.4	2.4	5.0	7.1
26	2.7	1.4	3.6	7.4	11.2	11.6	5.1	9.6	3.6	2.6	4.2	6.5
27	3.9	1.4	3.7	7.0	11.1	22.6	5.0	8.8	2.8	2.0	3.4	5.5
28	4.7	1.6	4.1	6.6	9.9	22.5	4.8	7.4	3.9	1.9	3.0	4.9
29	4.3	1.6	4.9	6.1	8.8	19.8	4.7	7.6	6.8	1.8	3.2	4.5
30	3.9	1.6	5.5	5.9	.....	24.5	4.6	7.8	7.5	2.0	2.4	4.0
31	3.4	.....	5.4	5.6	.....	27.0	.....	8.1	.....	2.0	2.6	.....

Daily gage height, in feet, of Tennessee River at Chattanooga, Tenn.—Cont'd.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1889.												
1	3.8	8.4	5.5	5.5	14.6	7.7	4.7	4.6	7.6	5.0	7.6	4.2
2	3.5	6.5	5.3	5.8	13.5	7.2	5.1	4.4	8.0	5.2	8.3	4.0
3	3.4	7.4	5.1	5.6	12.8	6.9	5.5	4.5	12.4	5.6	9.7	3.8
4	3.3	7.1	4.9	6.2	11.6	6.9	5.4	4.6	11.2	6.0	10.1	3.9
5	3.1	6.7	4.7	6.3	10.5	7.6	5.1	4.5	7.8	6.8	10.1	4.0
6	4.0	6.4	4.5	8.5	9.8	7.8	4.9	4.9	7.3	8.2	9.3	6.2
7	3.2	5.9	4.4	9.4	8.9	7.3	4.6	5.0	5.6	8.0	9.2	6.9
8	2.8	5.4	4.2	10.4	7.6	6.8	4.1	4.6	5.1	7.0	8.6	5.7
9	4.6	5.8	4.0	11.3	7.5	6.3	3.9	4.2	4.7	5.9	7.4	4.6
10	5.3	13.6	4.3	12.2	8.1	5.8	3.6	3.9	4.5	5.2	6.7	4.1
11	5.7	20.9	4.5	12.4	8.8	5.4	3.3	3.7	4.4	4.6	5.7	4.0
12	5.8	21.0	4.7	11.8	8.7	4.9	3.3	3.6	4.2	4.0	5.1	3.7
13	6.0	18.5	4.9	10.9	8.0	4.5	3.2	3.4	5.0	4.0	5.0	3.6
14	4.2	17.5	5.1	9.1	6.8	4.0	3.9	3.3	5.8	3.8	5.6	3.2
15	5.5	18.0	5.6	8.1	6.2	3.7	4.6	3.2	7.2	4.2	5.6	3.0
16	5.7	15.8	5.1	7.5	6.6	3.3	5.6	3.4	10.0	5.1	6.6	2.7
17	5.3	15.4	4.2	7.9	20.0	3.2	6.4	3.3	10.6	5.3	7.4	2.4
18	4.8	15.0	4.3	8.9	29.6	3.5	7.4	3.4	10.4	6.0	6.5	7.6
19	4.4	16.1	4.5	9.6	29.2	5.9	7.9	3.8	10.7	5.8	6.4	8.0
20	4.2	16.6	4.8	10.6	27.2	7.3	8.2	3.6	10.3	5.2	5.6	7.2
21	4.0	10.8	5.5	11.3	29.0	8.9	8.1	3.4	9.0	4.6	4.9	6.4
22	4.2	10.0	6.6	12.0	27.1	9.5	7.8	3.2	8.2	4.4	4.4	4.8
23	4.9	8.6	6.9	12.3	21.0	9.3	7.2	3.0	7.4	4.0	4.1	4.3
24	5.2	7.9	6.1	12.2	16.0	8.7	6.6	2.8	6.4	3.8	3.8	4.8
25	7.6	7.2	5.7	9.8	10.1	8.0	4.1	2.8	5.6	3 6	4.3	7.4
26	10.7	7.0	5.1	8.5	8.5	7.4	4.0	2.7	4.8	3.5	4.3	7.4
27	13.4	6.6	4.6	9.2	8.3	6.9	4.0	2.7	4.0	3.6	4.5	6.7
28	20.0	6.1	4.2	10.2	8.0	6.5	3.9	2.7	4.0	4.8	4.5	6.8
29	18.5	5.9	4.7	11.6	.....	5.8	4.1	2.8	3.9	7.5	4.2	6.4
30	15.5	5.7	4.7	13.0	.....	5.1	4.4	3.0	5.2	9.0	4.1	5.5
31	11.5	.....	4.5	14.0	.....	4.6	.....	3.5	.....	9.2	4.3	.....
1890.												
1	4.8	2.7	7.7	4.9	8.0	40.2	10.0	7.5	6.1	3.2	5.8	7.6
2	4.5	2.7	7.6	5.2	7.8	42.5	9.8	7.1	5.6	2.9	5.2	5.6
3	4.3	2.8	7.4	5.1	7.3	41.0	9.4	6.7	5.3	2.9	4.7	5.7
4	3.9	4.7	6.8	5.0	7.4	34.4	9.7	6.8	5.3	3.0	4.7	4.0
5	3.6	4.3	6.0	5.0	7.2	28.0	12.2	7.0	5.2	3.0	4.8	3.6
6	3.3	5.4	5.6	4.8	7.8	15.1	14.0	7.5	5.3	3.0	4.5	3.2
7	3.1	4.8	5.4	4.7	8.3	14.2	13.6	8.9	5.2	3.0	5.2	3.6
8	2.8	4.8	5.2	4.6	11.5	14.4	13.4	9.1	4.9	2.9	5.7	3.2
9	2.7	6.6	5.0	4.7	19.3	12.8	11.9	8.7	4.7	2.8	6.6	2.8
10	2.6	8.9	4.9	4.9	20.4	11.2	10.5	8.7	4.5	2.7	7.5	2.8
11	2.5	11.3	4.7	4.7	17.8	10.0	9.6	8.1	4.5	2.7	7.2	3.0
12	2.4	10.0	4.6	4.6	14.7	9.2	8.7	7.7	4.4	3.0	6.3	3.4
13	2.4	8.7	4 4	4.6	12.0	8.6	8.0	7.2	4.0	2.7	5.8	3.6
14	2.3	9.1	4.3	4.9	10.0	8.7	7.5	6.7	3.9	2.5	5.2	4.6
15	2.2	9.5	4.2	4.6	9.8	9.7	7 1	6.6	4.0	2.3	4.8	4.0
16	2.2	8.7	4.0	5.4	9.6	13.7	6.9	7 8	4.1	2.1	4.2	4.0
17	2.3	8.5	3.9	7.2	9.0	15.1	7.1	9.3	4.0	2.0	3.8	3.7
18	2.3	10.3	3.8	9.2	9.3	14.9	9.4	8.6	3.9	3.2	3.7	4.0
19	2.3	10.5	3.7	8.2	8.5	13.0	16 6	7.9	3.7	4.7	3.3	5.2
20	2.2	10.9	3.6	7.5	7.8	11.7	20.4	8.8	3.6	4.7	3.1	3.7
21	2.2	11.3	3.6	7.0	7.3	12.4	18.2	10.7	3.7	4.1	2.6	3.7
22	2.1	9.9	3.5	9.6	7.1	14.0	14.3	11 9	3.8	3.5	2.5	5.8
23	2.2	9.5	3.5	13.0	7 2	20.0	11 3	11.9	3.7	3.2	3.8	3.5
24	2.1	10.3	3.8	12.3	7 4	25.5	9.6	11 6	3.8	3.2	4.0	3.3
25	2.2	10.0	4.0	11.7	12.1	27.2	8.7	9.2	4.0	4.1	3.3	3.4
26	2.3	9.5	4.0	10.0	18.7	26.0	8.4	7.8	4.0	5.9	3.8	4.0
27	2.4	8.0	3.8	8.3	26.4	21.4	8.4	7.4	3.9	7.5	3.6	4.3
28	2.4	7.4	3.7	7.3	34.8	15.4	8.5	8.0	3.9	7.7	3.0	4.0
29	2.4	7.4	3.6	6.6	.....	13.0	8.4	8.1	3.5	7.0	3.8	3.8
30	2.6	7.9	4.4	7.7	.....	11.9	8.1	7.4	3.1	6.3	5.4	5.3
31	2.8	.....	4.8	8.3	.....	10.7	.....	6.8	.....	6.2	6.5	.....

Daily gage height, in feet, of Tennessee River at Chattanooga, Tenn.—Cont'd.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June.	July.	Aug.	Sept.
1891.												
1	9.4	6.8	2.4	7.7	9.8	13.6	15.4	5.9	5.8	3.9	8.3	5.4
2	8.1	6.6	2.4	7.8	12.2	17.5	16.3	5.7	5.6	3.8	10.3	4.7
3	7.7	5.7	2.3	9.9	16.1	15.6	16.3	5.6	5.3	3.6	15.1	4.3
4	7.2	5.3	2.3	14.1	19.8	13.3	15.7	5.5	4.8	3.6	16.4	4.2
5	6.4	5.0	2.3	15.5	22.6	15.4	15.1	5.2	4.4	3.6	12.0	5.1
6	5.7	4.6	2.5	15.2	21.6	20.0	12.6	5.1	4.1	3.6	8.7	5.1
7	5.2	4.4	2.8	10.4	18.3	23.6	11.6	4.9	3.9	3.4	6.9	5.2
8	5.2	4.3	2.9	8.2	16.9	29.1	10.8	4.7	4.1	3.2	5.8	5.2
9	5.5	4.0	7.1	7.1	14.5	34.5	9.8	4.6	4.6	3.3	5.1	5.8
10	5.3	3.9	8.1	6.3	21.0	37.5	9.6	4.5	4.7	4.5	4.6	4.9
11	4.8	3.8	8.2	6.5	27.8	38.9	9.8	4.4	5.5	5.1	4.4	4.4
12	4.6	3.6	7.7	8.9	34.3	37.6	9.9	4.3	7.0	4.4	4.0	3.9
13	4.4	3.5	7.4	10.7	36.5	33.5	10.6	4.2	6.5	3.9	4.0	3.6
14	4.2	3.4	6.4	10.0	37.5	27.0	11.3	4.1	5.7	3.5	3.9	3.5
15	3.9	3.3	3.7	9.2	35.5	22.2	12.2	4.2	5.5	3.1	3.8	3.6
16	3.7	3.2	4.2	7.3	29.0	19.8	10.8	4.2	5.7	2.9	3.6	3.5
17	3.7	3.2	3.9	7.8	21.1	18.1	9.4	4.5	5.8	2.8	3.5	3.8
18	3.7	3.0	3.9	7.8	19.7	15.3	8.4	4.7	6.1	2.7	3.4	3.2
19	4.2	3.2	4.0	7.5	18.2	13.5	8.2	4.7	6.8	4.1	3.0	2.9
20	4.0	3.1	4.0	7.6	16.5	12.3	7.9	4.6	7.3	5.0	3.0	2.7
21	4.0	3.1	3.9	7.3	15.5	11.3	7.9	4.5	6.8	4.5	3.4	2.6
22	3.8	3.1	3.9	8.2	13.8	10.8	7.6	4.3	6.8	4.0	4.0	2.5
23	5.3	2.9	3.9	12.5	24.0	10.7	7.4	4.1	6.5	3.8	4.6	2.4
24	7.2	2.8	3.9	15.3	27.7	10.8	7.4	4.0	7.1	3.6	5.5	2.3
25	8.8	2.8	4.3	14.0	29.0	10.6	7.5	3.8	7.4	3.5	5.6	2.2
26	9.2	2.7	4.6	13.6	28.7	10.4	7.5	3.9	7.6	3.5	7.7	2.2
27	9.5	2.6	9.4	11.2	26.6	10.5	7.4	4.0	6.2	3.5	8.2	2.1
28	8.6	2.6	12.5	9.7	19.0	14.1	7.2	4.1	4.9	3.6	8.1	2.0
29	7.6	2.5	12.9	7.9	.....	13.6	6.5	4.1	4.3	3.7	7.0	1.9
30	7.1	2.4	12.4	7.9	.....	12.0	6.2	4.7	4.1	3.8	6.4	1.9
31	7.0	.....	9.3	8.9	.....	12.1	.....	5.3	.....	5.7	6.1	.....
1892.												
1	1.8	1.3	3.7	6.6	6.5	5.7	9.1	8.7	5.6	6.6	4.2	2.1
2	1.9	1.3	3.2	6.6	6.2	5.6	8.3	8.2	5.4	5.6	4.1	1.8
3	1.9	1.3	2.9	8.1	6.0	5.5	7.4	7.6	5.5	5.5	4.2	1.7
4	1.8	1.2	2.8	8.8	5.8	5.3	6.8	7.3	5.8	5.4	4.0	1.5
5	1.8	1.2	5.6	8.7	5.5	5.1	6.5	7.4	8.8	6.6	4.1	1.3
6	1.7	1.2	6.1	8.4	5.4	5.0	8.5	7.0	9.2	8.9	4.9	2.2
7	1.7	1.2	6.6	9.0	5.3	4.9	21.7	6.6	9.3	11.2	4.2	2.1
8	1.6	1.2	8.6	9.8	5.8	5.0	31.6	6.3	8.7	11.8	3.8	2.0
9	1.7	1.2	10.8	10.0	8.1	6.0	34.2	6.2	8.6	10.1	3.5	2.0
10	1.7	1.2	10.9	9.3	11.5	7.1	34.3	5.9	8.3	8.6	3.3	1.9
11	1.8	1.5	10.2	8.1	11.3	8.0	31.0	5.5	7.8	9.0	3.3	2.0
12	1.8	1.7	8.5	8.3	10.5	7.9	26.6	5.7	8.0	9.5	3.1	1.8
13	1.7	2.7	6.8	11.2	8.9	7.6	18.0	5.7	8.1	9.4	3.5	2.1
14	1.7	3.6	5.7	22.9	7.7	7.6	12.9	5.5	7.8	8.9	3.6	2.1
15	1.7	4.1	5.1	22.9	7.2	6.8	11.7	5.3	6.0	8.7	3.7	2.1
16	1.6	3.5	5.0	37.1	7.4	6.2	10.9	5.2	5.3	8.5	3.5	2.1
17	1.6	2.8	5.2	37.9	8.0	5.9	10.0	5.1	4.8	8.4	3.1	4.5
18	1.5	2.5	5.3	35.2	7.9	6.5	9.4	4.8	4.4	8.1	2.9	4.1
19	1.5	2.4	4.8	26.3	7.5	7.5	8.8	5.1	4.4	7.5	2.8	3.5
20	1.5	2.5	4.5	18.7	7.7	8.2	12.3	5.5	4.3	7.2	2.8	3.0
21	1.5	2.3	4.2	19.0	7.9	8.2	16.2	6.1	7.0	6.9	3.0	2.8
22	1.5	2.4	4.0	19.0	8.9	7.8	16.3	6.5	7.8	6.2	2.9	3.0
23	1.5	2.0	3.8	17.4	8.9	7.6	15.5	6.9	7.4	5.6	2.9	2.6
24	1.5	4.6	3.7	14.9	8.7	8.4	14.8	7.1	7.1	5.4	3.0	2.3
25	1.5	6.2	4.1	12.2	7.9	9.6	13.5	7.6	6.9	5.2	2.7	2.3
26	1.5	6.7	4.9	10.5	7.5	9.8	12.7	7.8	6.8	5.0	2.8	2.6
27	1.5	6.3	8.1	9.7	6.7	10.0	12.6	6.7	6.7	4.6	3.2	3.6
28	1.5	5.6	10.2	8.5	6.4	10.6	10.4	6.2	7.3	4.5	3.6	3.1
29	1.4	4.7	9.6	7.7	5.9	10.3	9.1	5.8	7.5	4.3	4.4	2.6
30	1.4	4.0	8.4	6.9	.....	9.7	8.8	5.7	7.2	4.1	3.8	2.4
31	1.4	.....	7.8	6.3	.....	9.4	.....	5.6	.....	3.8	3.3	.....

Daily gage height, in feet, of Tennessee River at Chattanooga, Tenn.—Cont'd.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1893.												
1	2.2	1.1	4.1	3.4	10.4	8.4	5.5	10.2	7.4	3.9	2.6	3.4
2	2.0	1.2	4.0	3.4	12.1	9.1	5.3	9.6	8.0	3.8	2.5	6.8
3	1.9	1.2	3.8	4.7	10.6	8.9	5.1	11.0	10.0	4.2	3.1	5.0
4	1.8	1.6	3.7	5.7	8.6	8.9	5.1	18.4	8.1	5.2	3.5	6.2
5	1.7	2.0	3.6	5.6	8.0	8.7	5.1	21.5	6.6	4.8	3.3	6.0
6	1.6	2.3	3.6	5.3	7.7	9.0	5.2	28.2	8.3	3.9	3.2	4.9
7	1.6	2.4	3.3	5.2	7.0	9.1	5.4	30.0	16.0	3.8	4.9	4.3
8	1.5	2.4	3.2	4.7	6.5	8.8	5.4	28.2	20.7	3.5	5.0	3.5
9	1.5	2.9	3.2	4.0	6.1	8.8	5.1	18.0	19.1	3.4	4.1	3.2
10	1.5	4.4	3.0	3.8	6.2	9.4	5.1	12.8	15.2	3.6	3.8	2.8
11	1.5	5.9	2.9	3.4	8.5	11.1	5.1	11.7	11.9	3.4	3.3	2.8
12	1.5	6.6	2.7	2.9	14.7	11.7	5.0	10.4	8.9	3.4	3.0	2.7
13	1.4	7.0	2.6	2.9	21.8	11.5	4.8	9.4	7.3	3.3	2.7	5.8
14	1.4	4.4	2.6	.....	23.6	12.0	10.2	8.8	6.8	3.2	2.5	10 9
15	1.4	4.2	3.3	.....	22.6	10.6	12.1	8.1	6.5	3.0	2.8	12.7
16	1.4	4.8	2.4	.....	21.3	9.5	10.4	7.8	6.2	2.8	2.9	9.6
17	1.4	5.6	5.3	.....	23.6	8.4	8.6	9.4	5.6	2.7	3.8	8.0
18	1.3	6.2	8.1	.....	29.4	7.6	7.4	10.4	5.4	2.8	5.2	7.0
19	1.3	6.4	8.7	.....	32.4	7.0	6.5	8.9	5.3	3.0	4.9	6.1
20	1.2	6.2	8.4	.....	33.4	6.7	6.4	7.7	5.2	3.2	4.0	5.1
21	1.2	5.8	9.1	.....	32.8	6.3	7.2	7.4	5.4	3.5	2.9	4.2
22	1.2	4.8	9.3	.....	28.5	6.0	7.2	6.7	5.6	3.6	2.6	3.6
23	1.2	4.4	8.9	2.9	18.2	5.8	7.1	6.1	5.7	4.6	2.4	3.4
24	1.2	4.2	7.8	3.1	12.3	5.7	6.8	5.7	5.4	5.2	2.3	3.2
25	1.2	3.9	6.7	3.1	10.4	6.4	6.7	5.4	5.9	5.5	2.2	3.0
26	1.1	3.4	5.8	3.4	9.3	6.8	6.0	5.2	5.6	3.7	1.9	2.9
27	1.1	3.1	5.2	3.7	8.4	6.8	5.7	5.0	5.2	3.4	1.8	2.7
28	1.1	3.0	4.8	3.8	8.2	6.3	7.0	4.6	5.1	2.9	1.6	2.6
29	1.1	3.0	4.3	4.4	.....	5.9	9.5	5.4	4.7	2.7	1.6	2.4
30	1.1	3.6	3.9	5.3	.....	5.8	10.4	6.5	4.1	2.6	1.7	2.5
31	1.1	.....	3.3	7.1	.....	5.7	.....	7.4	.....	2.6	1.6	.....
1894.												
1	2.6	3.1	2.5	2.9	5.1	7.7	5.0	3.9	3.8	4.4	2.9	4.0
2	2.5	3.0	3.9	3.4	5.0	8.2	4.8	3.8	3.6	4.0	2.9	3.8
3	2.4	2.8	3.7	3.8	4.9	9.4	5.4	3.7	3.5	3.7	2.9	3.0
4	2.4	2.7	4.1	3.9	5.5	9.7	5.3	3.7	3.4	4.4	2.8	2.6
5	2.6	2.6	4.3	3.5	21.9	9.5	6.8	3.6	3.3	4.2	2.9	2.1
6	2.5	2.5	4.7	3.1	25.5	9.3	6.9	3.5	3.2	3.7	3.0	2.0
7	2.9	2.4	4.7	4.9	23.9	8.5	7.2	3.4	2.9	3.2	2.9	1.8
8	3.1	2.4	4.5	6.1	19.7	8.2	7.4	3.8	2.8	3.3	2.9	1.7
9	2.9	2.3	4.1	9.5	16.1	7.9	6.6	3.4	2.6	3.1	3.0	1.5
10	2.9	2.4	4.0	9.0	16.0	7.2	5.7	3.3	2.5	3.3	2.6	1.4
11	2.6	2.5	3.7	8.5	16.7	6.9	5.9	3.2	2.5	3.7	2.3	1.4
12	2.5	4.8	3.2	7.9	15.4	6.6	7.2	4.7	2.4	3.3	2.1	1.4
13	2.4	3.8	3.1	8.3	15.2	6.7	8.5	5.1	2.3	2.7	1.9	1.3
14	2.5	3.6	3.0	8.0	14.1	7.2	7.8	4.8	2.3	2.4	1.8	1.2
15	2.0	3.5	2.9	7.8	12.2	7.0	7.2	4.3	2.2	2.1	2.0	1.5
16	1.7	3.0	3.0	7.8	10.3	6.9	6.7	4.0	2.1	1.9	3.6	1.8
17	9.6	2.8	3.2	7.1	9.5	6.8	6.3	4.1	2.0	1.8	4.6	1.8
18	6.4	2.7	3.5	7.2	8.6	7.3	5.5	5.2	2.1	2.8	3.5	2.0
19	5.7	2.5	3.8	6.3	8.4	7.4	5.0	5.0	2.4	2.4	3.0	2.0
20	5.2	2.6	3.9	6.0	8.3	7.7	5.1	5.4	2.5	2.4	3.1	1.6
21	4.1	2.6	3.9	5.3	8.5	7.1	4.9	5.6	2.6	3.3	3.6	1.5
22	3.4	2.6	3.5	5.0	8.7	8.8	4.8	6.2	2.5	3.7	3.7	1.5
23	3.1	2.5	3.3	5.0	8.8	8.7	4.7	6.8	2.3	3.8	4.0	1.8
24	2.8	2.5	3.1	5.2	8.2	8.1	4.6	6.9	2.2	3.4	3.6	1.8
25	3.1	2.4	2.9	5.3	7.9	7.7	4.5	7.1	2.2	4.0	3.0	1.6
26	3.3	2.5	2.8	5.2	7.0	7.3	4.3	6.7	2.5	4.1	2.6	1.3
27	4.9	2.6	2.7	5.4	7.7	7.0	4.2	6.0	2.6	3.9	2.2	1.1
28	4.6	2.8	2.6	5.4	7.7	6.5	4.1	5.6	2.7	3.8	2.7	1.0
29	4.0	2.7	2.5	5.1	.....	5.9	4.0	5.1	2.9	3.6	2.4	.9
30	3.5	2.5	2.7	5.0	.....	5.7	4.0	4.7	4.3	3.3	2.7	.8
31	3.2	.....	3.1	4.9	.....	5.2	.....	4.2	.....	3.3	4.3	.....

Daily gage height, in feet, of Tennessee River at Chattanooga, Tenn.—Cont'd.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1895.												
1	0.9	1.4	1.0	4.7	7.6	6.8	7.8	6.0	5.6	3.2	4.4	3.3
2	.9	1.7	1.0	3.9	7.2	7.3	7.4	5.8	5.2	3.4	4.1	3.4
3	1.0	2.3	.9	3.3	7.3	12.1	6.8	5.5	4.8	3.8	3.8	3.2
4	1.5	1.6	.9	3.2	7.5	18.2	6.5	5.4	4.5	4.0	3.5	3.1
5	1.8	1.4	.9	3.1	7.6	19.9	6.3	5.7	4.2	4.5	3.4	2.9
6	1.8	1.5	.9	3.1	7.4	18.2	6.2	6.0	4.4	5.0	3.0	2.8
7	1.5	1.5	.9	3.3	6.9	13.4	6.0	6.5	4.6	5.0	3.2	2.8
8	1.3	1.3	.9	4.0	6.5	10.5	9.6	7.0	5.2	5.1	3.3	2.8
9	1.1	1.2	1.1	10.9	6.4	9.2	10.7	8.2	5.1	5.5	3.3	2.5
10	1.0	1.1	1.2	20.5	6.0	8.6	11.4	8.6	4.6	5.7	3.0	2.4
11	.8	1.0	1.6	28.5	4.0	8.1	13.0	9.0	4.2	5.1	3.0	2.3
12	.9	1.0	3.8	32.1	3.3	7.5	12.5	8.8	3.8	4.4	2.9	2.4
13	1.2	.9	8.6	31.2	4.2	7.8	10.4	8.9	3.6	3.8	3.2	2.5
14	1.9	.8	11.1	28.3	.....	8.0	8.8	9.5	3.5	3.4	2.9	2.5
15	2.4	.8	11.2	19.5	4.3	8.7	7.9	9.0	3.4	3.2	2.8	2.3
16	2.1	.8	10.8	12.3	4.7	9.4	7.4	8.2	3.4	3.2	2.7	2.2
17	1.7	.8	8.8	10.9	4.7	9.2	7.0	7.7	3.8	3.7	3.1	2.1
18	1.4	.7	6.6	10.0	4.2	9.6	9.0	7.1	3.7	3.0	4.3	2.3
19	1.1	.8	4.7	9.7	4.7	9.4	11.8	7.0	3.5	3.3	4.9	2.2
20	1.0	.9	4.2	9.1	5.0	8.9	11.8	7.2	3.2	3.0	5.7	2.0
21	.9	.9	3.6	9.6	5.1	14.3	9.9	7.1	3.1	2.7	5.3	2.1
22	.8	.9	3.2	10.2	5.6	20.6	8.6	6.7	3.2	2.7	6.1	1.9
23	.8	1.0	2.8	9.9	6.1	22.7	7.7	6.2	3.1	2.5	5.3	1.6
24	.8	1.0	2.7	9.1	6.7	22.0	7.1	5.8	3.0	2.4	4.8	1.4
25	.8	1.1	2.5	10.8	6.8	18.2	6.7	5.6	2.9	2.4	4.6	1.3
26	.8	1.2	2.4	10.8	6.5	13.0	6.3	5.6	2.9	2.9	4.7	1.3
27	.7	1.2	4.2	10.0	6.3	11.3	6.0	7.0	2.6	3.8	4.2	1.2
28	.7	1.2	6.9	9.3	6.3	10.6	6.0	7.5	2.5	10.2	3.7	1.1
29	.7	1.1	8.4	8.8	.....	9.5	5.9	7.4	2.5	10.1	3.5	1.0
30	1.0	1.1	7.9	8.6	.....	8.9	5.9	6.7	2.6	7.4	3.7	.9
31	1.1	.....	5.8	8.4	.....	8.4	.....	6.0	.....	5.3	3.4	.....
1896.												
1	.9	1.1	1.4	4.9	4.4	4.1	14.8	3.4	2.6	3.3	5.5	2.4
2	.8	1.2	1.5	5.0	6.2	3.9	27.7	3.4	3.0	3.2	5.2	2.1
3	.8	1.3	1.4	4.9	10.0	3.8	34.4	3.4	4.4	3.1	4.8	1.9
4	.8	1.6	1.4	4.9	11.6	3.7	33.8	3.5	5.7	3.2	4.6	1.8
5	.8	1.6	1.4	4.7	10.5	3.6	40.5	4.0	5.2	3.2	4.5	1.6
6	.8	1.3	1.6	4.3	9.3	3.5	36.9	4.6	4.7	3.2	4.9	1.6
7	.8	1.3	1.5	3.6	11.8	3.4	23.3	4.6	4.1	3.6	5.0	1.5
8	.9	1.2	1.4	3.3	14.0	3.5	11.6	4.3	3.5	5.0	4.2	2.0
9	.8	1.1	1.3	3.2	13.8	3.5	9.0	4.0	3.5	7.9	3.8	2.8
10	.9	1.2	1.3	3.2	13.2	3.4	8.0	3.7	4.5	14.2	3.4	2.7
11	1.0	1.3	1.4	3.1	12.8	3.6	7.2	3.4	7.0	21.1	3.3	2.4
12	1.0	1.7	1.5	3.1	11.4	3.6	6.7	3.1	6.3	21.6	3.4	2.0
13	1.0	2.1	1.8	2.9	10.1	3.8	6.2	2.9	5.1	15.6	3.2	1.8
14	1.0	2.4	1.9	2.7	11.1	3.8	5.8	2.8	4.3	11.5	3.2	1.6
15	.9	2.2	2.0	2.6	12.8	3.7	5.5	2.7	3.6	11.2	3.1	1.6
16	1.0	2.0	1.9	2.4	13.6	3.8	5.2	2.6	3.2	11.4	3.0	1.5
17	1.0	1.9	1.8	2.3	12.5	5.5	5.0	2.5	3.0	11.0	3.0	1.3
18	1.0	1.8	1.7	2.3	11.0	10.1	4.8	2.4	2.8	13.9	2.9	1.4
19	.9	1.7	1.6	2.3	9.0	13.1	4.6	2.4	2.9	12.5	2.7	1.4
20	.9	1.5	1.5	2.3	7.6	15.7	4.4	2.2	3.1	9.6	2.6	1.3
21	.8	1.3	1.6	2.3	6.7	13.8	4.2	2.1	3.7	7.6	2.4	1.2
22	.8	1.1	2.1	2.5	6.0	11.2	4.1	2.1	3.5	6.5	2.4	1.2
23	.7	1.3	3.3	3.1	5.4	9.5	4.1	2.5	3.5	8.5	2.2	1.3
24	.7	1.4	4.2	5.0	4.9	8.4	4.0	3.2	3.3	8.5	2.2	1.4
25	.7	1.3	4.6	6.5	4.7	7.9	4.0	3.6	3.1	8.6	2.8	1.6
26	.7	1.3	4.3	8.2	4.6	7.5	3.8	3.8	2.9	7.8	2.6	2.0
27	.7	1.3	4.2	8.0	4.5	7.2	3.7	3.2	2.6	11.1	2.7	1.7
28	.7	1.3	4.5	7.0	4.4	6.7	3.8	3.1	2.6	12.2	3.2	1.5
29	.7	1.3	5.2	6.0	4.2	6.2	3.8	2.8	2.8	9.3	4.0	1.5
30	.7	1.5	4.7	5.3	.....	5.8	3.6	2.7	3.0	7.2	3.6	2.7
31	1.0	.....	4.7	4.8	.....	7.7	.....	2.5	.....	6.2	2.8	.....

Daily gage height, in feet, of Tennessee River at Chattanooga, Tenn.—Cont'd.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July	Aug.	Sept.
1897.												
1	2.5	1.2	11.2	2.4	3.0	12.5	8.7	5.9	4.3	4.9	4.4	2.1
2	2.3	1.2	12.6	2.5	7.0	9.6	12.2	6.3	4.2	4.4	3.8	2.2
3	2.6	1.3	13.9	2.5	10.1	8.6	15.0	7.4	4.2	3.8	3.8	1.8
4	3.0	1.5	11.1	2.6	10.5	9.0	16.0	9.6	4.1	3.4	3.6	1.8
5	2.7	1.5	8.2	2.6	9.4	9.5	26.0	9.6	4.1	3.6	3.3	1.8
6	2.6	1.6	6.5	2.7	8.3	12.1	20.4	8.5	4.1	4.0	3.4	1.7
7	2.1	2.3	5.6	2.9	8.8	19.2	29.7	7.7	4.0	3.8	4.2	1.7
8	1.7	2.5	4.9	3.0	10.7	25.1	25.4	7.2	4.4	4.0	4.2	1.6
9	1.5	4.2	4.6	2.8	14.1	24.2	20.0	6.6	4.3	4.3	4.8	1.6
10	1.4	4.1	4.4	2.8	15.5	21.3	16.0	6.2	4.1	4.0	5.5	1.4
11	1.3	3.3	4.5	2.7	13.2	22.3	14.1	6.0	5.6	4.2	5.1	1.2
12	1.2	3.2	4.7	2.6	10.8	28.4	12.6	6.2	5.8	4.7	4.4	1.2
13	1.2	5.8	4.4	2.4	9.9	34.9	11.4	7.8	4.9	4.5	4.0	1.2
14	1.2	7.3	4.5	2.6	10.0	37.9	10.3	18.4	4.2	4.1	3.4	1.0
15	1.5	6.5	4.4	4.1	10.5	37.9	9.7	22.4	3.8	3.8	3.0	1.0
16	1.7	5.5	4.1	6.5	10.7	37.0	9.8	20.3	3.6	3.7	2.8	1.0
17	1.6	4.9	3.9	6.6	9.8	36.0	10.2	16.5	3.6	4.8	2.8	.9
18	1.6	4.3	3.8	6.3	8.6	33.8	9.8	11.9	3.6	6.5	3.2	.9
19	1.7	3.8	4.2	6.4	7.6	29.6	9.3	9.1	3.3	5.8	3.3	.8
20	1.6	3.4	4.8	6.8	7.0	29.6	8.8	7.7	3.4	5.9	3.0	.8
21	1.6	3.0	4.6	7.0	7.0	32.4	8.1	6.9	4.5	6.6	3.0	.9
22	1.4	2.8	4.3	7.2	8.3	33.3	7.5	6.4	4.9	6.0	3.4	.8
23	1.2	2.5	4.0	7.3	12.2	30.9	7.0	5.9	5.0	5.8	3.4	.8
24	1.2	2.4	3.8	7.0	25.2	25.0	6.7	5.6	5.3	6.4	3.8	.9
25	1.2	2.3	3.6	6.6	31.6	18.1	6.4	5.6	5.7	8.6	3.2	.8
26	1.2	2.2	3.3	5.9	34.8	14.2	6.2	5.0	6.1	11.2	2.8	.8
27	1.2	2.1	3.1	5.3	33.8	12.2	6.0	4.8	5.2	12.2	2.8	.7
28	1.2	2.2	2.9	4.8	23.6	10.8	6.1	4.6	6.0	8.2	2.8	.7
29	1.1	5.3	2.7	4.4	.....	9.8	6.2	4.4	6.0	6.4	2.4	.7
30	1.1	9.4	2.6	3.7	.....	9.1	5.8	4.2	6.1	5.5	2.2	.8
31	1.3	.....	2.5	3.0	.....	8.6	.....	4.3	.....	4.8	2.1	.....
1898.												
1	.8	.8	1.0	3.4	7.6	3.3	17.4	6.4	3.4	2.4	3.2	3.6
2	.8	.9	1.3	3.2	6.7	3.2	17.8	5.8	3.3	2.4	7.6	4.0
3	.7	1.1	1.4	3.0	6.2	3.0	15.0	5.4	3.3	2.2	6.4	9.2
4	.6	1.2	2.2	2.9	5.4	3.0	11.4	5.0	3.3	2.0	5.4	18.5
5	.5	1.2	3.5	2.8	5.0	3.3	10.4	4.7	2.8	2.4	6.2	25.0
6	.5	1.2	3.8	2.6	4.6	3.4	12.2	4.4	2.6	2.1	11.8	22.2
7	.4	1.3	3.9	2.7	4.4	3.5	11.6	4.4	2.4	2.1	14.6	15.7
8	.4	1.3	3.4	2.8	4.4	3.4	10.3	4.1	2.2	2.2	12.6	11.2
9	.4	1.2	2.8	3.0	4.3	3.2	9.3	4.2	2.0	2.6	10.2	9.5
10	.4	1.2	2.4	3.2	4.2	3.0	8.3	4.2	2.0	3.0	8.5	8.6
11	.5	1.1	2.4	3.2	4.0	2.9	8.6	4.4	1.8	3.5	9.0	7.4
12	.6	1.0	2.0	5.5	3.9	2.8	9.5	4.6	2.0	3.4	12.3	6.4
13	1.0	1.0	1.8	12.2	3.8	2.8	9.4	4.4	1.8	3.2	14.8	5.7
14	1.4	.9	1.8	14.4	3.8	2.8	9.0	4.2	1.8	2.8	15.8	5.2
15	1.2	.8	2.6	12.2	3.8	3.2	9.0	4.0	1.6	2.8	15.0	4.8
16	1.2	.8	2.7	12.2	3.7	5.1	9.2	3.9	1.8	3.5	11.6	4.4
17	1.2	.8	2.4	12.4	3.6	5.0	8.6	3.8	2.0	4.6	8.9	4.2
18	1.2	.8	2.6	10.0	3.5	5.2	8.2	3.7	2.4	5.4	7.1	4.0
19	1.2	.8	2.7	9.2	3.3	5.5	8.0	3.7	3.5	4.6	6.4	3.8
20	1.6	.8	3.6	11.7	3.3	6.1	8.0	3.6	4.0	4.2	6.0	3.6
21	2.0	.7	4.9	13.8	3.2	5.7	7.4	3.6	5.4	4.0	4.0	3.4
22	1.8	.7	8.0	13.4	3.2	5.4	7.0	3.6	5.6	3.3	5.6	3.6
23	1.5	.7	10.2	12.6	3.4	5.2	6.6	3.5	5.0	3.3	5.4	5.0
24	1.4	.7	8.8	12.4	3.5	4.6	6.8	3.4	4.6	3.4	4.8	5.0
25	1.6	.7	7.6	12.4	3.6	4.3	6.6	3.4	3.7	3.6	4.3	6.4
26	1.4	.7	6.3	16.0	3.8	4.2	6.6	3.7	3.4	3.6	4.0	7.2
27	1.2	.7	5.5	18.2	3.5	4.4	6.4	5.0	2.9	4.6	4.0	6.2
28	1.0	.7	4.9	16.7	3.4	4.4	7.1	5.6	2.8	5.6	4.1	5.0
29	1.6	.7	4.4	14.2	.....	4.6	7.0	4.9	2.8	5.4	4.3	4.3
30	.8	.7	4.0	11.2	.....	5.6	6.8	4.2	2.6	5.9	4.1	3.8
31	.8	.....	3.8	9.0	.....	13.2	.....	3.7	.....	7.9	3.8	.....

Daily gage height, in feet, of Tennessee River at Chattanooga, Tenn.—Cont'd.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1899.												
1	3.6	4.6	5.1	4.8	5.7	19.2	22.8	7.6	4.2	3.4	4.2	2.2
2	3.3	4.3	5.0	5.0	5.6	17.6	19.5	7.1	4.2	3.3	3.6	2.4
3	3.2	4.2	4.9	5.3	5.6	15.2	14.9	6.7	4.4	3.0	3.0	2.8
4	3.9	4.0	5.0	5.8	10.7	14.2	13.0	6.3	4.8	2.8	2.8	3.0
5	8.9	3.9	5.0	6.0	23.1	18.0	13.2	6.2	4.6	2.6	2.4	2.6
6	16.9	3.9	5.6	7.2	30.4	24.5	14.7	7.1	4.2	2.6	2.4	2.2
7	16.5	4.2	6.0	18.8	34.3	26.6	15.7	8.5	4.0	2.6	2.4	2.0
8	10.8	4.4	5.9	18.4	37.0	27.6	18.0	9.4	3.8	3.0	2.4	1.8
9	8.8	4.5	5.8	17.4	38.2	27.7	17.8	10.0	3.6	2.9	2.2	1.6
10	8.4	4.4	5.6	17.2	36.8	16.2	15.7	10.7	3.4	2.6	2.1	1.8
11	7.6	4.6	5.1	13.8	30.3	11.8	14.2	11.2	3.9	2.6	2.1	1.7
12	6.6	5.0	4.8	10.5	19.4	10.6	12.9	10.4	4.3	2.4	2.0	2.0
13	6.0	5.3	4.6	9.2	12.2	9.6	11.6	9.6	5.2	2.3	2.0	1.8
14	5.7	5.0	4.3	8.1	9.5	11.2	10.7	9.3	5.8	2.2	2.2	2.0
15	5.4	4.6	4.0	7.6	8.5	24.6	10.0	9.6	6.4	2.2	2.6	1.8
16	4.9	4.4	3.8	7.3	7.6	34.2	9.4	9.2	6.1	2.0	2.6	1.6
17	4.7	4.6	3.7	7.4	8.0	36.9	8.8	8.7	6.4	1.9	2.4	1.4
18	5.2	4.8	3.6	7.4	9.6	36.2	8.4	7.8	6.2	1.8	2.3	1.2
19	6.7	5.0	3.8	7.2	11.3	35.8	8.0	7.9	5.2	1.9	2.2	1.2
20	7.8	5.3	5.2	7.0	12.6	37.0	7.6	6.4	4.7	2.0	1.9	1.0
21	9.3	5.8	5.8	6.8	11.5	39.2	7.4	5.9	4.2	2.0	1.7	1.0
22	8.8	6.0	6.0	6.4	10.6	40.0	7.0	5.6	3.8	2.4	1.6	1.0
23	7.6	6.6	5.8	6.0	10.1	38.7	7.8	5.4	3.5	2.7	1.4	1.3
24	7.2	6.8	5.4	5.6	9.8	32.7	9.6	5.3	3.2	3.5	1.3	1.5
25	7.2	6.6	5.2	6.0	9.5	23.2	9.4	5.0	3.2	3.4	1.2	1.5
26	7.6	6.1	5.4	6.4	9.2	16.3	10.8	4.8	3.0	3.0	1.2	1.4
27	6.9	5.6	5.9	5.8	13.2	13.6	10.3	4.6	3.2	3.0	1.2	1.3
28	6.2	5.2	5.7	5.8	18.4	14.0	9.2	4.4	3.6	3.6	1.2	1.2
29	5.6	4.8	5.2	5.6	.....	17.3	8.4	4.3	3.5	4.2	1.5	1.2
30	5.2	5.0	4.8	5.3	.....	21.2	7.8	4.2	3.3	4.2	1.8	1.3
31	4.8	.....	4.5	5.3	.....	22.8	.....	4.2	.....	5.2	1.8	.....
1900.												
1	1.2	1.1	1.7	3.0	3.2	8.0	7.8	6.2	2.8	8.8	6.2	2.1
2	1.1	1.1	1.7	.....	3.0	8.7	7.2	5.6	2.8	8.2	5.4	2.0
3	1.0	1.0	1.7	.....	2.6	10.9	6.8	5.4	3.0	7.0	4.7	2.3
4	1.0	1.1	1.7	.....	2.5	12.5	7.2	5.2	3.2	6.3	4.2	2.5
5	.9	1.5	1.8	.....	2.9	12.8	8.0	5.0	3.2	5.8	3.6	2.3
6	.8	1.5	1.7	2.1	3.5	10.6	8.6	4.8	3.5	5.4	3.2	2.0
7	.8	1.5	1.6	2.2	4.0	10.0	7.8	4.6	5.6	5.0	2.9	1.7
8	1.0	1.4	1.5	2.3	3.9	11.6	7.0	4.4	6.6	4.8	2.6	1.6
9	1.2	1.4	1.4	2.4	5.4	14.6	6.5	4.4	6.2	4.2	2.4	1.4
10	1.6	1.2	1.4	2.4	8.4	16.5	6.1	4.4	5.3	4.2	2.3	1.3
11	1.8	1.2	1.6	3.4	9.4	16.2	6.5	4.3	5.0	4.3	2.1	1.2
12	1.8	1.1	5.2	6.0	9.0	14.2	7.5	4.3	4.9	3.8	2.0	1.1
13	1.7	1.0	6.4	8.2	13.9	11.6	7.4	4.2	4.5	3.4	1.9	1.0
14	1.6	1.0	7.4	8.7	21.6	9.8	7.0	4.0	5.2	3.3	1.9	1.1
15	1.4	1.0	7.2	8.4	24.0	8.6	6.5	3.8	5.3	3.3	2.1	1.8
16	1.2	1.0	6.2	7.8	21.4	8.0	6.3	3.8	5.2	3.3	2.2	3.1
17	1.2	1.0	5.2	6.4	17.0	7.8	8.8	3.6	5.4	3.2	2.3	4.0
18	1.2	1.0	4.2	5.5	12.0	7.6	10.0	3.5	6.2	3.1	2.3	4.1
19	1.1	1.0	3.8	5.8	9.2	7.6	9.8	3.4	8.8	3.0	2.3	4.6
20	1.1	1.0	4.2	8.5	7.7	8.6	9.4	3.4	9.2	2.9	2.2	4.7
21	1.1	.8	4.4	9.4	7.1	11.6	11.7	3.2	8.9	2.7	1.9	3.9
22	1.1	.8	4.4	8.8	7.7	15.0	12.0	3.2	7.6	2.5	1.8	3.0
23	1.0	1.0	4.2	8.0	8.5	17.4	11.4	3.0	6.4	2.5	1.7	2.6
24	1.0	1.2	5.6	7.2	8.6	16.4	10.7	3.0	6.2	2.8	1.8	2.4
25	1.0	1.3	6.2	6.2	8.6	12.6	9.8	3.2	7.2	3.0	1.9	2.7
26	.8	1.7	6.3	5.5	9.5	11.2	8.5	3.2	7.6	3.1	2.5	2.7
27	.8	1.8	5.8	5.0	9.3	10.9	7.8	3.4	8.0	3.3	3.1	2.6
28	.8	1.8	5.6	4.6	8.4	10.7	7.4	3.6	8.2	4.6	2.7	2.4
29	.9	1.8	5.1	4.2	.....	10.2	7.0	3.6	8.6	8.0	2.5	2.3
30	1.0	1.8	4.6	3.9	.....	9.4	6.6	3.4	8.7	8.2	2.3	2.2
31	1.0	.....	3.8	3.6	.....	8.5	.....	3.0	.....	7.3	2.2	.....

Daily gage height, in feet, of Tennessee River at Chattanooga, Tenn.—Cont'd.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1901.												
1	2.0	2.9	8.7	5.2	6.5	3.7	12.4	10.8	12.0	6.0	2.8	9.9
2	1.8	2.6	6.5	5.7	6.7	3.7	13.2	9.3	11.1	5.9	2.8	9.8
3	1.7	2.5	5.6	5.8	7.2	3.7	19.7	8.5	9.8	6.3	2.9	9.7
4	1.5	2.9	5.1	5.6	8.7	3.7	21.1	7.6	8.5	6.4	2.8	10.3
5	1.4	3.3	5.6	5.1	10.1	3.8	23.9	7.0	7.7	6.0	2.6	9.4
6	1.3	3.7	6.9	4.7	10.0	4.0	22.4	6.7	6.9	5.2	2.6	7.9
7	1.3	4.2	8.3	4.4	9.4	4.1	18.9	6.4	6.0	5.1	3.2	6.9
8	1.6	4.2	9.2	4.1	8.9	4.1	14.2	6.2	6.0	5.4	9.1	6.4
9	1.8	3.7	8.5	3.9	8.5	4.0	11.8	5.9	6.5	5.6	12.2	5.9
10	2.1	3.2	7.0	3.8	7.7	7.0	10.3	5.6	6.9	6.3	9.9	5.5
11	2.1	3.0	6.1	6.1	7.6	9.8	9.2	5.6	8.2	6.6	7.3	5.3
12	2.5	2.7	5.4	15.4	7.0	11.2	8.4	5.4	7.4	5.6	5.8	5.1
13	3.0	2.5	4.9	26.6	7.1	9.7	7.9	5.6	6.4	5.0	5.3	5.7
14	2.5	2.3	4.5	28.1	7.2	8.2	6.8	5.5	6.1	4.4	6.5	5.9
15	1.9	2.2	4.3	25.3	7.0	7.3	9.8	5.5	6.4	4.1	14.0	6.0
16	1.8	2.1	4.2	19.5	6.4	6.4	10.3	5.4	7.5	3.6	27.3	6.1
17	1.6	2.0	4.0	12.7	5.8	5.8	10.2	5.2	8.9	3.7	32.8	6.3
18	1.5	2.0	3.6	9.7	5.3	5.4	9.6	4.9	9.8	3.9	32.6	8.8
19	1.4	1.9	3.4	8.1	5.1	6.0	10.8	5.3	9.3	3.7	28.6	9.9
20	1.3	1.9	3.3	7.2	5.0	4.7	21.1	8.0	8.9	3.7	23.4	9.3
21	1.2	2.1	3.3	6.4	4.9	4.7	26.5	10.2	8.4	4.2	18.6	8.3
22	1.2	2.2	4.0	5.9	4.7	4.8	24.7	20.2	7.7	3.9	17.0	7.4
23	1.4	2.3	4.2	5.4	4.5	5.2	23.0	26.5	10.1	3.7	16.5	6.4
24	2.2	2.8	4.7	5.6	4.4	5.0	22.2	29.7	9.5	3.5	18.5	5.6
25	4.1	3.2	5.2	5.8	4.2	5.0	19.0	32.4	7.6	3.1	16.5	5.2
26	7.0	7.8	5.4	5.8	4.1	7.7	17.1	32.5	9.6	3.0	13.1	4.9
27	7.5	13.9	5.2	5.4	3.8	15.9	14.0	23.5	9.8	2.9	11.0	4.6
28	6.0	15.6	4.6	5.2	3.7	22.3	14.9	13.5	8.4	2.9	10.3	4.4
29	4.9	15.6	4.3	5.2	.....	21.7	14.5	12.1	7.2	2.8	10.7	4.4
30	3.7	13.2	4.2	5.2	.....	18.4	13.8	11.9	6.4	2.8	10.0	4.3
31	3.4	.....	4.5	5.5	.....	14.7	.....	12.3	.....	2.8	9.8	.....
1902.												
1	4.2	2.6	2.3	40.1	20.1	24.0	30.9	5.6	4.0	9.8	2.2	1.4
2	4.5	2.6	2.2	40.8	21.8	31.9	27.0	8.5	3.8	10.2	2.0	1.2
3	4.6	2.5	2.3	37.6	23.2	35.8	18.0	9.3	3.6	8.8	2.1	1.2
4	4.5	2.5	2.5	26.8	21.7	38.0	12.3	8.0	3.5	7.5	2.4	1.5
5	4.4	2.5	2.5	15.0	18.0	35.9	10.7	6.8	3.4	6.5	2.4	1.3
6	4.8	2.5	2.5	10.9	14.5	30.3	10.0	6.0	3.4	5.5	2.8	1.4
7	4.5	2.4	3.0	9.7	11.7	25.5	9.5	5.6	3.2	4.5	2.5	1.5
8	4.1	2.4	3.2	8.9	10.0	20.7	9.8	5.6	3.2	4.0	2.1	1.5
9	3.9	2.4	3.2	8.0	8.8	17.9	9.9	5.5	3.3	3.7	1.9	1.5
10	3.7	2.4	3.5	7.7	8.1	15.6	9.5	5.2	3.4	3.5	2.2	1.5
11	3.4	2.4	3.5	7.3	7.5	14.2	8.9	5.0	3.2	3.4	2.8	1.4
12	3.4	2.4	4.0	6.9	6.9	12.9	8.4	4.8	3.4	3.4	2.7	1.5
13	3.5	2.5	4.1	6.5	6.4	12.1	8.0	4.6	3.5	3.6	2.4	1.9
14	4.0	2.5	4.7	6.2	6.0	11.2	7.5	4.5	3.3	4.8	2.0	2.1
15	4.3	2.5	17.9	5.8	6.0	10.5	7.3	4.5	3.1	5.0	1.7	2.0
16	4.1	2.5	26.8	5.5	6.1	10.0	7.1	4.6	3.0	4.2	1.6	1.9
17	4.1	2.4	28.6	5.3	6.0	12.2	6.9	4.7	3.0	3.8	1.5	1.8
18	4.0	2.4	26.7	5.1	5.8	14.5	6.8	4.5	3.0	3.3	1.5	1.5
19	3.7	2.3	19.9	5.1	5.6	14.9	6.7	4.5	4.0	3.1	1.5	1.4
20	3.3	2.3	11.4	5.2	5.5	14.1	6.6	4.4	4.5	2.9	1.4	1.4
21	3.1	2.2	8.3	5.4	5.2	12.3	6.5	4.4	4.6	2.6	1.5	1.4
22	3.1	2.1	6.6	6.2	5.7	10.6	6.3	4.5	4.4	2.7	1.6	2.0
23	3.1	2.2	5.7	6.5	6.8	9.5	6.1	4.8	4.0	2.9	1.6	2.6
24	3.0	2.5	5.8	6.7	7.9	8.9	6.0	4.6	3.9	2.6	1.5	2.6
25	3.0	2.5	6.9	6.6	8.1	8.3	5.9	4.6	3.7	2.3	1.4	2.8
26	2.9	2.5	7.9	6.1	8.5	7.8	5.7	4.5	3.5	2.0	1.4	3.3
27	2.8	2.6	10.2	6.3	8.6	7.5	5.5	4.2	4.0	2.0	1.5	3.6
28	2.7	2.5	16.0	8.5	13.3	7.2	5.4	4.0	3.9	1.9	1.5	3.6
29	2.6	2.5	24.0	12.6	.....	12.9	5.2	4.4	4.0	1.9	1.6	3.6
30	2.5	2.4	32.0	15.8	.....	26.5	5.2	4.5	5.0	2.0	1.9	3.5
31	2.5	.....	37.4	18.9	.....	30.8	.....	4.3	.....	2.3	1.7	.....

Daily gage height, in feet, of Tennessee River at Chattanooga, Tenn.—Cont'd.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1903.												
1	3.9	1.3	5.2	4.7	4.8	26.5	17.4	9.0	6.5	4.1	2.8	1.7
2	3.7	1.3	5.1	4.5	4.9	31.0	16.6	8.3	8.2	3.8	2.6	1.6
3	3.9	1.4	6.7	5.3	5.1	29.2	14.8	7.8	11.6	3.7	2.9	1.4
4	3.3	1.5	7.4	6.1	7.6	23.6	12.0	7.3	11.5	3.6	3.8	1.4
5	3.0	1.5	7.8	6.9	15.4	16.5	12.3	7.0	10.1	3.6	3.8	1.3
6	2.8	1.5	7.5	6.8	19.6	13.1	12.4	6.7	9.3	3.8	4.2	1.3
7	2.4	1.4	7.5	8.2	17.5	12.3	11.9	6.6	9.8	3.9	4.9	1.3
8	2.1	1.8	6.6	7.6	18.0	14.6	15.5	6.3	11.2	3.8	4.2	1.3
9	2.0	2.2	6.0	6.7	17.2	20.7	24.5	6.0	10.5	4.0	3.8	1.3
10	1.9	2.1	5.3	6.0	15.3	24.2	30.3	5.8	9.0	4.0	3.0	1.2
11	2.2	1.9	4.7	5.5	14.4	23.9	31.8	5.6	8.7	3.9	2.6	1.2
12	2.9	1.8	4.2	6.2	16.0	21.0	28.0	5.4	7.8	3.8	2.7	1.1
13	2.7	1.8	3.9	7.1	16.3	18.3	19.7	5.2	8.0	4.1	3.3	1.1
14	2.7	1.6	3.6	7.2	14.8	16.2	17.5	5.0	7.1	5.7	2.9	1.1
15	3.3	1.5	3.4	6.5	13.6	14.9	20.4	4.9	6.3	5.5	3.2	1.2
16	3.4	1.4	3.5	6.0	12.3	13.6	21.9	4.8	5.6	5.4	3.8	1.1
17	3.5	1.4	4.8	5.8	18.4	11.9	21.2	4.7	5.1	5.6	4.1	1.0
18	3.0	1.4	7.4	5.4	25.0	10.7	18.8	4.6	4.7	5.1	3.8	1.2
19	2.8	1.7	7.8	5.1	29.3	9.8	16.1	4.5	4.4	4.7	3.4	1.3
20	2.6	1.9	7.2	4.8	29.0	9.0	14.2	4.3	4.3	4.1	3.8	1.3
21	2.2	2.1	7.0	4.5	24.4	9.0	13.2	4.2	4.3	3.8	3.3	1.1
22	2.0	1.9	8.7	4.4	18.4	9.0	13.0	4.1	4.3	4.0	3.0	1.2
23	1.8	1.9	9.6	4.2	11.3	10.0	13.0	4.0	4.3	3.6	2.9	1.2
24	1.8	2.0	8.7	4.0	9.9	16.7	11.8	4.0	4.3	3.2	2.5	1.1
25	1.6	2.1	7.2	4.0	8.8	25.8	10.8	3.8	4.2	2.9	2.2	1.0
26	1.5	3.5	6.5	4.2	8.0	28.8	10.1	3.8	4.1	2.7	2.0	1.0
27	1.4	6.1	5.7	4.3	7.5	27.3	9.6	3.6	4.1	2.6	1.8	.8
28	1.4	6.3	5.1	4.4	12.7	20.1	9.2	3.5	4.5	2.4	1.7	.7
29	1.3	5.8	4.5	4.5	.....	13.8	9.2	3.5	4.7	2.3	1.0	.7
30	1.2	5.4	4.3	4.7	.....	13.1	9.6	3.8	4.5	2.3	1.0	.6
31	1.2	.....	4.6	4.8	.....	16.0	.....	4.7	.....	2.2	1.8	.....
1904.												
1	.6	.8	1.1	3.1	3.4	8.1	9.0	6.0	4.3	3.6	2.2	2.2
2	.6	.9	1.1	2.6	3.1	7.4	8.1	7.6	4.1	3.7	2.2	2.0
3	.6	1.1	1.1	2.3	2.8	7.0	7.2	6.7	4.3	4.3	2.6	1.8
4	.6	1.2	1.0	2.2	2.7	6.6	6.6	5.8	4.4	4.0	2.4	1.8
5	.6	1.8	1.0	2.0	2.5	6.1	6.0	5.4	4.9	3.9	2.6	1.7
6	.6	1.8	.9	2.0	2.4	6.2	5.6	5.2	4.9	3.4	2.9	1.7
7	.6	1.5	1.0	1.7	2.3	6.1	5.4	4.9	4.5	3.1	3.7	2.2
8	.8	1.4	.9	1.6	3.6	8.0	5.4	5.4	3.8	2.9	3.7	2.4
9	1.0	1.3	1.0	1.5	4.8	11.0	5.8	5.6	3.7	2.7	3.3	2.2
10	1.5	1.3	.9	1.6	5.9	11.3	5.9	6.4	3.7	2.9	3.3	2.0
11	1.4	1.3	.9	1.7	5.4	11.1	6.0	7.0	3.4	2.9	3.3	1.8
12	1.3	1.3	.9	1.7	5.5	10.1	5.6	7.2	3.2	3.1	3.3	1.6
13	1.2	1.3	1.0	1.9	4.9	9.0	5.3	6.6	2.8	3.1	4.1	1.4
14	1.2	1.3	.9	2.1	4.4	8.5	4.9	5.7	2.6	3.6	3.7	1.3
15	1.0	1.2	.9	2.3	3.9	9.1	4.7	5.4	2.5	3.4	3.3	1.2
16	.9	1.2	1.0	2.5	3.6	8.9	4.4	5.2	2.5	3.0	3.3	1.1
17	1.0	1.5	1.2	2.6	3.5	8.1	4.3	4.9	2.4	2.6	4.1	1.0
18	1.0	3.6	1.1	2.9	3.3	7.1	4.3	4.5	2.2	2.4	3.9	1.0
19	1.0	5.6	1.0	3.9	3.1	6.6	4.3	4.3	2.1	2.2	3.1	.9
20	.9	5.8	1.4	3.8	3.2	6.1	4.2	4.1	2.0	2.1	2.7	.9
21	.9	4.6	3.0	3.6	3.7	5.8	4.1	3.8	2.0	1.8	2.4	.9
22	.9	3.8	4.7	3.6	5.2	7.4	4.0	3.6	2.1	1.7	2.4	.8
23	.9	3.1	4.4	6.0	6.3	12.9	4.0	3.5	2.6	1.9	2.2	.8
24	.8	2.6	3.7	10.6	7.9	18.2	4.0	3.4	2.7	2.2	2.2	.8
25	.8	2.1	3.7	9.2	8.1	21.8	4.0	3.1	2.3	2.1	2.9	.8
26	.7	1.8	3.4	7.5	7.9	20.9	3.8	2.9	2.3	2.0	3.0	.7
27	.7	1.6	3.1	7.1	7.1	19.1	3.7	2.8	2.2	2.2	2.8	.6
28	.6	1.5	3.7	5.8	7.3	16.9	4.1	2.7	2.2	2.4	2.6	.6
29	.6	1.3	3.8	4.8	9.0	14.0	4.6	2.7	2.7	2.1	2.6	.6
30	.6	1.2	3.8	4.2	.....	11.8	4.7	2.6	3.4	2.6	2.5	.6
31	.7	.....	3.7	3.8	.....	10.3	.....	3.0	.....	2.9	2.3	.....

Daily gage height, in feet, of Tennessee River at Chattanooga, Tenn.—Cont'd.

Day	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1905.												
1	0.7	0.1	1.1	6.7	2.8	8.6	4.8	3.6	5.9	3.6	3.8	2.4
2	.7	1	1.4	5.4	3.2	7.9	4.8	3.0	5.4	6.3	3.8	2.3
3	.6	2	1.7	5.1	3.2	7.3	4.5	6.9	4.8	5.2	4.3	2.5
4	.5	4	2.2	4.0	3.1	6.8	4.4	6.2	4.3	4.4	3.9	2.3
5	.4	.5	2.1	4.2	3.0	6.4	4.3	5.7	4.1	4.2	3.8	2.5
6	.5	.5	3.5	4.5	3.8	6.1	4.4	5.3	3.8	4.1	3.0	2.5
7	.4	.6	4.4	4.3	5.1	5.9	4.5	5.1	3.7	3.9	3.0	2.3
8	.3	.6	5.8	4.6	6.4	5.6	5.0	5.5	3.5	4.0	2.8	2.3
9	.2	.6	5.7	4.8	12.1	5.9	4.9	6.5	3.4	4.5	3.2	2.2
10	.3	9	5.4	5.2	20.4	10.6	6.2	7.9	3.4	4.6	3.5	2.0
11	.3	.9	4.2	5.0	22.4	16.2	6.3	8.0	3.1	4.5	5.1	2.7
12	.3	.9	3.5	5.1	20.2	17.3	6.7	7.2	3.0	5.2	6.8	2.5
13	.3	.8	3.0	9.6	16.0	15.4	7.0	6.8	2.9	6.6	7.2	2.8
14	.2	.6	2.7	17.2	13.6	13.4	7.3	5.8	3.0	10.5	8.4	2.7
15	.2	.6	2.5	16.4	13.8	10.6	7.8	5.8	3.1	12.7	8.9	2.5
16	.2	.7	2.4	15.1	12.2	8.8	7.4	7.2	3.2	11.3	8.8	2.4
17	.2	.8	2.3	11.3	11.2	7.7	6.7	10.9	3.3	9.2	7.6	2.4
18	.2	.9	2.1	8.1	9.4	6.9	6.0	13.7	3.3	7.3	7.0	2.3
19	.2	1.0	2.0	6.6	8.3	6.4	5.5	13.5	3.1	6.2	6.4	2.2
20	.2	1.1	1.8	5.8	7.9	6.0	5.1	11.8	4.3	5.5	6.1	2.0
21	.1	1.0	1.7	5.3	14.9	6.5	4.7	9.6	4.9	5.1	5.3	2.0
22	.1	1.0	1.6	5.0	21.4	7.0	4.7	7.8	5.0	5.4	5.1	1.9
23	.1	.9	1.5	4.7	21.0	7.5	4.7	7.4	6.0	5.1	4.6	1.8
24	.1	1.0	1.4	4.4	19.4	7.0	4.7	9.5	5.9	4.7	4.2	1.7
25	.1	1.0	1.4	4.0	15.6	6.4	4.6	10.2	5.7	4.8	5.8	1.7
26	.1	1.0	2.0	3.7	13.1	6.1	4.4	8.8	5.1	5.0	7.0	1.6
27	.1	1.1	3.0	3.4	11.2	5.7	5.3	7.6	4.8	5.4	6.0	1.6
28	.1	1.0	7.3	2.9	9.7	5.4	6.2	6.8	4.4	4.8	5.4	1.5
29	.1	1.0	10.2	2.4	.....	5.2	6.4	6.1	6.0	4.2	5.0	1.4
30	.1	1.0	9.6	2.4	.....	5.1	7.6	5.8	5.6	3.8	4.5	1.4
31	.1	.....	7.6	2.7	.....	4.9	.....	5.9	.....	3.8	4.0	.....
1906.												
1	1.3	2.6	1.5	5.5	9.6	5.3	14.8	4.9	4.1	4.6	7.7	13.0
2	1.3	2.4	1.6	5.1	9.1	5.2	12.4	4.8	3.8	4.2	9.0	11.7
3	1.4	2.2	2.4	5.0	8.8	5.5	10.6	4.8	4.1	3.9	9.5	10.3
4	1.4	2.0	6.6	8.3	8.3	8.2	9.2	4.9	4.3	3.7	8.2	8.9
5	1.6	1.9	10.5	12.0	7.7	9.4	8.3	5.1	4.3	3.5	7.6	7.7
6	1.7	1.8	9.7	12.9	7.0	8.6	7.5	5.5	4.3	3.5	7.9	7.9
7	1.7	1.7	8.8	12.1	6.5	7.7	7.1	6.0	4.1	3.7	7.3	8.1
8	1.6	1.6	7.1	10.9	6.1	7.2	6.9	7.2	3.9	3.7	6.9	10.4
9	1.5	1.6	6.6	9.1	5.8	6.7	6.9	8.2	3.9	4.4	6.2	12.6
10	1.5	1.6	9.5	8.1	5.6	6.3	7.4	8.9	3.8	5.4	5.8	9.3
11	1.6	1.6	9.7	7.6	5.3	5.9	8.6	8.3	3.6	5.6	5.5	8.2
12	2.6	1.5	9.4	7.0	5.0	5.7	9.3	7.0	3.2	5.2	5.2	8.6
13	3.2	1.5	8.1	6.7	4.8	5.4	8.7	6.1	3.2	4.5	4.9	8.0
14	3.7	1.4	6.8	6.9	4.7	5.1	8.1	5.5	4.4	4.7	4.7	7.6
15	3.0	1.4	6.1	6.9	4.7	5.7	8.4	5.1	5.4	6.7	5.1	8.2
16	3.0	1.3	6.7	7.4	4.6	7.3	8.7	4.8	7.8	8.7	6.3	5.7
17	2.6	1.3	6.6	8.0	4.6	9.9	9.4	4.5	9.2	7.9	7.3	5.3
18	2.3	1.3	6.0	8.9	4.5	10.6	10.1	4.2	8.6	9.3	7.2	4.9
19	2.1	1.2	5.7	8.7	4.5	10.4	10.2	4.0	7.7	14.2	7.6	4.6
20	1.9	1.3	5.4	8.0	4.4	10.7	8.9	3.8	6.8	15.0	7.7	4.1
21	1.8	1.3	6.3	7.5	4.4	10.6	7.7	3.7	6.0	10.8	7.7	3.9
22	1.8	1.4	7.5	7.3	4.9	9.7	7.0	3.6	5.5	10.3	7.3	11.1
23	1.9	1.6	8.1	8.7	5.5	8.9	6.5	3.5	5.1	12.0	6.9	10.3
24	2.0	1.6	9.4	12.4	6.0	8.1	6.0	3.5	4.9	13.7	6.5	9.2
25	1.9	1.5	11.0	17.4	5.8	7.4	5.7	3.4	6.0	12.3	6.5	8.6
26	2.1	1.5	10.4	21.4	5.5	6.9	5.4	3.3	6.6	9.7	7.1	7.7
27	2.9	1.5	9.0	18.9	5.3	6.7	5.2	3.3	6.7	8.1	7.3	7.0
28	3.3	1.5	7.8	13.4	5.2	6.9	5.3	3.7	6.2	7.5	6.7	6.6
29	3.3	1.5	7.0	11.1	.....	7.6	5.6	3.9	5.5	7.2	6.5	5.9
30	3.0	1.5	6.4	10.2	.....	9.6	5.3	4.1	5.0	6.6	7.7	6.1
31	2.9	.....	6.0	10.1	.....	13.7	.....	4.6	.....	7.0	8.7	.....

Daily gage height, in feet, of Tennessee River at Chattanooga, Tenn.—Cont'd.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1907.												
1	13.9	4.5	6.3	20.5	5.0	10.4	5.6	7.0	4.5	6.3	5.8	3.0
2	19.2	4.4	6.2	19.6	9.3	12.3	6.3	6.6	5.4	5.8	5.8	2.8
3	19.3	4.3	5.7	15.4	11.2	17.2	7.0	6.2	5.9	5.6	4.5	2.6
4	17.9	4.2	5.6	12.5	10.1	18.4	6.4	6.0	6.1	5.0	4.1	2.6
5	13.8	3.9	5.5	10.7	9.1	16.9	6.1	5.9	7.9	4.6	3.6	2.3
6	13.6	3.9	5.3	9.6	9.5	14.5	5.9	6.7	8.7	4.5	3.5	2.3
7	15.3	3.9	5.3	8.7	9.9	11.2	8.6	7.9	8.4	4.3	3.5	2.4
8	15.4	2.8	5.4	7.9	9.6	9.6	11.2	9.6	7.7	3.9	3.0	2.4
9	13.4	2.7	5.5	7.4	8.7	9.5	9.8	11.8	8.1	3.8	3.0	2.4
10	11.4	3.6	5.3	6.9	7.8	9.5	9.9	12.3	9.8	3.7	2.9	2.5
11	9.9	3.5	5.2	6.6	7.1	10.0	10.0	12.5	13.9	3.6	3.0	2.9
12	8.6	3.5	5.6	6.4	6.6	12.0	9.4	12.2	13.5	3.5	3.5	4.1
13	7.6	3.5	5.6	6.3	6.2	12.3	9.0	10.0	11.4	4.2	4.1	4.6
14	7.0	3.7	5.5	6.0	5.9	11.9	8.1	8.9	9.9	5.6	3.8	4.6
15	6.4	4.0	5.4	5.8	5.6	12.1	7.1	8.2	11.2	7.4	3.5	4.3
16	6.0	4.1	5.3	5.6	5.4	12.6	6.7	8.1	10.3	7.3	3.3	3.6
17	5.7	4.4	5.1	5.4	5.3	12.2	6.5	7.5	15.3	6.3	3.5	3.1
18	5.6	4.4	5.8	5.3	5.0	11.5	6.5	6.9	15.0	6.2	3.6	2.7
19	7.0	8.2	8.5	5.1	4.9	10.6	6.5	6.4	10.4	6.2	3.6	2.6
20	7.1	22.1	9.2	5.1	4.8	9.3	6.9	5.7	8.3	4.9	3.5	2.1
21	6.9	31.6	8.9	5.6	4.7	8.4	7.9	5.5	7.5	4.6	3.4	2.1
22	7.0	33.3	9.3	6.6	4.6	7.7	7.6	5.0	7.1	4.5	4.0	2.1
23	8.9	31.0	8.4	8.0	4.5	7.1	7.4	4.7	6.7	4.2	4.2	3.7
24	8.4	22.0	7.7	7.3	4.4	6.6	8.1	4.6	6.1	3.8	4.1	8.4
25	7.4	13.0	7.3	6.6	4.8	6.1	8.5	4.5	6.1	3.8	4.1	10.2
26	6.6	9.7	6.6	6.1	6.8	5.9	8.5	4.4	6.9	3.7	3.8	10.6
27	6.0	8.6	6.1	5.8	9.2	5.7	8.5	4.4	7.0	3.6	3.9	9.3
28	5.6	7.7	5.8	5.5	10.1	5.5	8.6	4.5	7.0	3.6	3.9	6.8
29	5.2	7.2	5.9	5.3	.....	5.4	8.7	4.5	6.8	3.3	3.6	5.8
30	4.9	6.8	10.1	5.2	.....	5.2	7.6	4.4	7.1	3.4	3.2	5.5
31	4.7	.....	16.3	5.1	.....	5.0	.....	4.4	.....	4.3	3.0	.....
1908.												
1	5.6	2.1	7.0	18.6	6.8	7.4	7.8	10.3	5.4	3.1	3.3	3.8
2	4.8	2.0	5.7	17.9	8.3	7.3	7.3	9.8	5.5	2.9	3.4	3.3
3	4.6	2.2	5.3	15.6	10.2	7.5	7.3	9.6	5.5	2.8	3.4	3.2
4	3.8	2.5	4.8	12.0	9.3	8.4	7.6	9.2	5.3	3.0	3.1	3.0
5	3.5	3.6	4.5	10.7	8.6	9.8	13.4	9.5	5.7	4.5	2.8	2.6
6	3.4	3.7	4.2	13.5	8.3	10.3	14.3	9.6	6.1	5.6	3.2	3.0
7	3.6	3.7	4.0	15.5	9.9	9.5	11.0	10.0	6.1	6.6	4.1	3.7
8	3.9	3.7	3.8	13.7	8.0	8.4	9.0	10.4	6.2	6.9	4.2	4.2
9	3.8	3.2	3.5	12.2	7.5	9.6	8.0	11.2	6.2	6.4	4.7	4.5
10	3.6	2.9	3.5	10.5	8.1	9.8	7.4	11.6	6.0	7.3	5.2	4.9
11	3.3	4.6	3.7	9.5	9.4	8.4	6.9	12.2	5.8	7.3	5.5	4.7
12	3.1	6.3	4.3	9.8	9.4	7.7	6.5	12.0	5.7	6.8	5.0	3.8
13	2.9	8.4	5.0	12.1	9.0	8.4	6.1	7.0	5.6	5.6	4.5	3.3
14	2.9	10.5	5.6	17.8	11.1	10.7	5.8	6.3	5.5	4.6	4.0	2.8
15	2.7	8.1	6.2	20.3	15.7	12.2	5.8	5.9	5.3	4.2	3.6	2.5
16	2.5	6.0	6.6	18.2	21.7	12.8	6.0	5.6	5.3	4.3	3.3	2.3
17	2.2	5.1	6.6	14.2	24.7	9.4	6.3	5.2	5.5	4.5	3.0	2.0
18	2.2	4.5	6.7	12.3	23.7	8.5	6.7	4.9	5.8	4.3	2.9	2.0
19	2.1	4.6	6.4	11.4	20.0	7.9	7.8	4.8	6.1	4.0	2.9	2.0
20	2.1	4.8	5.9	10.2	15.3	7.6	8.2	5.2	6.1	3.7	2.9	1.9
21	2.0	5.3	5.6	9.2	12.0	8.1	7.7	5.6	5.9	3.7	3.4	2.0
22	2.0	6.0	5.2	8.5	10.2	9.8	7.3	6.1	5.7	3.8	4.1	2.0
23	2.0	6.7	5.1	7.7	9.2	11.5	7.0	6.1	5.6	3.5	4.4	2.0
24	2.0	9.4	5.8	7.4	8.4	13.3	6.9	6.0	3.4	3.1	7.3	1.9
25	2.0	12.3	6.5	6.7	7.8	15.9	8.0	5.8	3.4	3.0	7.7	1.8
26	2.0	13.6	7.1	6.1	7.4	16.7	9.8	5.7	3.3	3.0	5.6	1.7
27	2.0	13.3	7.8	5.8	7.5	15.2	11.9	5.5	4.4	2.9	5.6	1.6
28	2.0	12.1	7.7	5.6	7.7	12.9	13.9	5.5	4.4	2.9	5.7	1.6
29	2.0	9.3	7.0	5.6	7.6	10.8	13.8	5.3	4.0	2.8	7.1	1.6
30	2.1	7.7	7.3	6.2	.....	9.3	11.7	5.3	3.7	2.9	6.8	1.5
31	2.2	.....	14.6	6.1	.....	8.4	.....	5.2	.....	3.1	4.9	.....

Daily gage height, in feet, of Tennessee River at Chattanooga, Tenn.—Cont'd.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1909.												
1	1.5	6.3	2.3	7.2	6.1	13.3	16.5	14.2	6.9	7.9	6.1	3.1
2	1.4	6.1	2.4	7.9	5.9	11.1	13.2	21.4	6.8	8.2	7.6	3.1
3	1.4	5.0	3.2	7.6	5.7	9.7	11.0	24.8	7.1	8.5	8.4	3.1
4	1.4	4.5	4.8	7.2	5.6	8.8	9.5	24.1	16.2	8.2	8.9	3.1
5	1.4	4.2	5.1	7.2	5.4	8.1	8.6	20.0	23.2	7.6	9.1	2.7
6	1.4	3.4	4.9	8.5	5.6	7.7	8.1	14.5	23.3	6.9	8.8	2.7
7	1.3	3.0	6.1	9.9	6.7	8.3	7.8	11.8	23.5	6.3	7.6	2.6
8	1.3	2.8	10.3	9.9	8.1	10.6	7.9	10.7	17.2	6.8	6.8	2.6
9	1.4	2.7	14.0	9.6	8.0	11.3	8.8	8.7	13.1	11.7	6.2	2.6
10	1.5	2.6	13.1	8.5	9.6	16.0	9.1	8.1	14.6	18.5	5.5	2.9
11	1.7	2.5	11.3	7.8	13.5	20.3	8.4	8.2	13.1	17.3	5.2	3.3
12	2.1	2.4	9.0	7.1	18.0	22.8	7.7	8.9	12.4	12.5	5.0	3.2
13	2.4	2.6	7.5	6.8	17.0	21.5	7.6	10.6	11.6	9.7	4.8	3.3
14	2.4	3.4	7.6	6.6	16.3	23.3	8.1	9.8	10.5	9.4	4.4	3.2
15	2.6	3.5	7.9	6.8	13.5	24.6	8.3	8.4	11.1	12.3	4.8	3.1
16	2.4	3.4	7.6	9.5	14.5	21.7	8.3	7.5	11.7	13.2	4.9	2.9
17	2.2	3.2	6.8	12.4	19.6	17.1	8.1	7.0	11.7	11.9	4.8	2.8
18	2.0	3.0	6.0	14.2	19.9	14.7	7.7	6.6	10.8	10.3	10.5	2.7
19	1.9	2.9	5.4	16.4	16.6	12.6	7.0	6.3	9.8	8.3	13.2	2.9
20	1.9	2.9	5.0	16.1	14.5	11.5	6.2	6.1	9.7	7.1	9.0	3.0
21	1.8	2.8	4.7	12.9	12.6	11.4	6.0	7.2	9.0	6.7	7.0	3.1
22	1.7	2.8	4.6	10.0	12.0	12.2	6.2	10.6	9.2	6.4	5.8	3.0
23	1.5	2.7	7.4	8.3	17.2	12.0	6.8	19.9	8.6	6.1	5.0	3.8
24	1.4	2.7	10.7	7.5	20.2	11.1	8.2	21.4	8.0	5.8	4.8	4.0
25	1.4	2.6	12.1	6.9	21.6	10.4	9.3	15.8	8.5	6.7	4.2	4.8
26	2.2	2.5	11.8	6.4	21.3	11.8	8.7	11.2	9.3	6.1	3.8	5.5
27	3.7	2.5	10.0	6.0	18.9	14.3	8.1	9.3	8.8	5.7	3.6	5.0
28	5.0	2.4	7.9	5.7	16.3	14.7	7.9	8.2	9.5	5.4	3.5	4.0
29	3.8	2.4	7.1	5.6	.....	15.5	8.0	7.6	9.0	5.3	3.3	3.3
30	3.2	2.3	7.2	5.7	.....	17.6	8.1	7.4	8.3	4.7	3.2	3.5
31	3.5	.....	7.6	5.8	.....	18.2	.....	7.1	.....	4.8	3.2	.....
1910.												
1	3.0	2.1	1.8	2.4	5.0	7.8	3.5	6.2	7.5	6.0	7.3	2.9
2	2.8	2.1	1.8	2.3	4.9	10.8	3.4	5.6	6.8	6.3	8.1	3.7
3	2.6	2.1	1.7	2.2	4.7	13.6	3.3	5.2	6.3	6.4	6.8	9.1
4	2.4	2.0	1.7	2.9	4.5	13.2	3.2	4.9	6.2	7.0	5.9	8.7
5	2.2	2.0	1.7	3.0	4.6	11.7	3.2	4.6	5.9	7.0	5.6	7.8
6	2.2	2.0	1.7	3.6	4.8	9.9	3.1	4.4	6.9	6.8	6.2	6.8
7	2.1	2.0	1.9	6.0	5.1	8.6	3.1	4.2	8.5	7.6	6.4	6.2
8	2.0	2.0	3.5	11.6	5.1	7.6	2.9	4.2	9.3	9.3	6.2	6.2
9	2.0	1.9	4.5	11.6	5.0	6.9	2.9	6.9	8.0	11.6	6.5	5.8
10	2.0	1.9	4.6	9.8	4.7	6.5	2.8	8.4	7.4	11.1	5.6	5.3
11	2.1	1.8	4.2	9.0	4.6	6.1	2.8	8.7	7.3	10.6	5.7	5.2
12	2.3	1.8	4.0	7.3	4.5	6.1	2.8	8.7	7.1	10.4	5.4	4.9
13	2.6	1.8	3.7	6.0	4.4	6.1	2.7	8.5	6.9	8.9	4.7	4.9
14	3.0	1.8	4.3	5.3	4.4	5.9	2.7	7.4	7.2	8.1	4.3	4.7
15	4.0	1.8	4.9	4.8	4.4	5.8	2.7	6.7	7.5	8.2	3.9	4.3
16	6.1	1.7	5.4	4.5	4.3	5.7	3.0	6.1	7.4	8.5	3.8	3.8
17	5.0	1.7	5.9	4.4	4.3	5.4	3.8	6.1	7.9	8.9	3.6	3.5
18	4.7	1.7	5.5	4.3	7.3	5.1	6.2	6.2	7.9	8.6	3.5	3.3
19	4.3	1.7	5.0	4.2	12.6	4.9	8.0	7.0	7.8	8.3	3.3	3.0
20	3.7	1.7	4.2	5.1	13.9	4.7	7.5	7.6	7.2	7.5	3.3	2.9
21	3.2	1.7	3.8	6.8	12.9	4.5	6.8	8.3	7.0	6.9	3.2	2.7
22	3.1	1.7	3.6	8.1	11.7	4.4	6.2	9.2	6.7	6.5	3.7	2.6
23	2.8	1.7	3.4	9.6	10.4	4.4	5.7	9.4	6.5	6.1	3.7	2.6
24	2.7	1.7	3.1	9.4	9.9	4.1	5.2	9.1	6.0	5.7	3.4	2.5
25	2.5	1.9	2.8	9.3	9.2	4.1	4.9	11.1	5.9	5.3	3.3	2.4
26	2.4	2.0	3.0	8.2	8.2	4.1	4.9	13.4	5.9	5.2	3.2	2.3
27	2.4	2.1	3.4	7.0	7.2	4.0	4.9	12.7	5.8	5.0	3.1	2.3
28	2.4	2.0	3.4	6.3	6.8	3.8	5.1	11.8	5.6	4.8	3.0	2.4
29	2.3	1.9	3.3	5.8	.....	3.8	6.0	10.7	5.8	4.8	2.9	2.4
30	2.3	1.8	.....	5.4	.....	3.7	6.5	9.2	5.9	5.2	3.1	2.5
31	2.2	.....	.....	5.3	.....	3.6	.....	7.8	.....	5.7	3.1	.....

Daily gage height, in feet, of Tennessee River at Chattanooga, Tenn.—Cont'd.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1911.												
1	2.5	1.4	1.7	4.7	6.5	5.4	7.0	6.8	3.4	3.7	2.6	1.6
2	2.6	1.4	1.8	10.7	7.4	5.2	6.3	9.9	3.3	3.1	2.5	1.6
3	2.8	1.4	1.8	20.5	9.7	5.2	5.9	11.7	3.2	2.7	2.5	2.0
4	2.8	1.4	1.8	24.2	8.5	5.2	5.6	11.6	3.2	2.6	2.5	2.1
5	2.6	1.4	2.1	24.9	7.8	5.0	14.6	9.9	3.1	2.6	3.1	2.8
6	2.4	1.4	4.8	22.9	8.7	4.8	25.3	8.4	3.1	2.3	3.5	2.6
7	2.3	1.4	8.4	18.6	9.3	4.7	28.8	7.4	3.1	2.3	3.4	2.9
8	2.3	1.4	10.6	12.9	9.5	4.7	29.8	6.9	3.0	2.3	3.3	2.9
9	2.3	1.4	8.7	9.5	15.4	11.4	29.9	6.5	3.0	2.3	3.2	3.0
10	2.4	1.4	8.0	8.1	21.7	18.2	27.3	6.0	3.0	2.3	3.2	2.8
11	2.9	1.4	6.3	7.2	23.7	20.0	21.1	5.8	3.2	2.3	3.0	2.6
12	3.1	1.3	5.0	6.5	23.9	16.4	17.0	5.6	3.2	2.9	3.0	2.5
13	3.1	1.3	4.2	6.0	20.6	11.3	15.8	5.4	2.9	3.2	2.6	2.5
14	2.9	1.3	3.7	5.6	15.0	9.1	13.8	5.1	2.5	3.2	2.6	2.3
15	2.5	1.3	3.3	5.2	11.4	7.9	12.6	4.8	2.4	3.2	2.4	2.3
16	2.3	1.2	3.0	5.0	9.7	7.2	13.9	4.6	2.3	3.5	2.4	2.2
17	2.1	1.2	2.8	4.7	8.6	6.3	14.7	4.4	2.2	3.4	2.4	2.1
18	2.0	1.2	2.6	4.6	7.7	5.6	14.8	4.4	2.2	3.4	2.4	2.0
19	2.0	1.2	2.5	4.5	7.1	5.2	14.0	4.4	2.2	3.4	2.7	2.0
20	1.9	1.2	2.4	4.5	6.7	4.9	15.6	4.4	2.2	3.3	2.8	2.1
21	1.8	1.2	2.4	4.5	6.7	4.8	15.9	4.3	2.3	2.9	2.7	2.1
22	1.7	1.2	2.4	4.5	6.7	4.9	14.3	4.3	2.3	2.7	2.4	2.0
23	1.7	1.2	2.4	4.3	6.6	4.9	12.2	4.4	2.4	2.8	2.2	2.0
24	1.6	1.2	2.4	4.3	6.4	4.9	10.7	4.9	2.4	2.9	2.0	2.0
25	1.6	1.2	2.4	4.2	6.3	4.9	9.5	4.8	2.4	5.0	1.9	2.0
26	1.6	1.2	2.6	5.1	6.0	4.9	8.7	4.6	2.4	4.8	1.8	2.0
27	1.6	1.2	3.1	6.0	5.8	5.4	8.0	4.2	2.4	4.9	1.7	2.1
28	1.6	1.3	3.3	5.8	5.6	6.7	7.5	4.0	2.4	3.8	1.6	2.9
29	1.6	1.5	3.4	5.4	.....	7.4	7.1	3.8	2.6	3.2	1.6	2.8
30	1.6	1.5	3.4	5.4	.....	7.4	6.8	3.6	2.5	2.8	1.6	2.4
31	1.5	.....	3.7	5.9	.....	7.4	.....	3.5	.....	2.7	1.6	.....
1912												
1	2.2	2.8	4.2	12.9	14.3	14.4	29.6	25.4	8.6	6.3	4.8	3.3
2	2.0	2.7	4.0	13.5	14.2	12.3	26.1	26.0	7.4	5.8	4.8	3.1
3	2.0	2.5	3.9	12.1	12.6	10.3	26.3	22.3	6.6	5.7	4.8	2.9
4	2.0	2.4	3.7	10.7	10.4	9.1	29.3	16.7	6.0	5.6	5.2	2.8
5	2.0	2.4	3.5	9.4	7.8	8.5	30.2	12.9	5.7	5.9	4.5	2.7
6	2.0	2.3	3.3	8.2	7.3	8.4	29.2	11.5	5.6	6.2	4.3	2.6
7	2.0	2.4	3.1	7.2	6.7	8.4	22.7	10.9	5.6	7.8	4.2	2.6
8	2.1	2.9	3.0	6.4	5.7	9.2	14.9	11.7	5.8	7.8	4.2	2.5
9	2.6	3.4	2.9	6.3	5.5	10.2	12.4	12.0	5.4	7.6	4.2	2.5
10	2.6	3.9	2.8	6.4	5.2	10.9	11.1	11.0	5.3	7.0	4.1	2.4
11	2.6	4.5	2.7	6.9	5.2	12.1	10.3	10.1	5.1	6.7	4.1	2.4
12	2.7	4.8	2.7	6.7	4.9	12.5	9.5	9.5	4.8	7.9	4.1	2.4
13	2.7	5.0	2.7	6.6	4.9	12.7	8.9	8.8	4.5	8.0	4.0	2.3
14	2.9	5.7	2.9	6.3	4.9	12.0	8.4	8.3	3.9	7.7	3.8	2.2
15	3.8	6.0	3.5	5.8	4.8	13.8	7.9	7.8	3.9	6.8	3.6	2.2
16	3.8	5.6	5.3	5.8	5.5	20.0	7.8	7.5	4.3	6.3	3.6	2.1
17	4.0	5.2	6.7	6.8	6.3	23.9	8.4	7.4	4.4	6.0	3.8	2.0
18	5.6	5.0	6.5	6.6	6.4	23.8	9.4	7.3	4.6	5.7	4.1	2.0
19	6.0	5.0	5.4	4.2	6.2	21.7	9.9	7.3	4.8	5.2	4.0	2.2
20	7.0	5.1	4.8	4.4	6.1	17.5	10.0	7.7	4.6	5.2	3.9	2.4
21	7.2	5.1	4.8	4.9	6.4	13.2	9.0	7.7	4.4	5.4	3.9	2.7
22	7.7	5.0	4.8	5.6	10.9	11.1	8.5	7.0	4.0	5.5	4.0	2.7
23	6.4	5.0	6.4	5.6	14.9	9.4	11.7	6.4	3.8	6.0	4.3	3.8
24	5.0	4.8	8.0	5.9	15.6	9.1	15.5	6.0	3.6	6.0	4.4	4.5
25	4.4	4.5	9.8	5.9	15.1	12.8	14.6	5.7	3.8	5.6	5.2	6.1
26	3.9	4.4	10.2	5.4	13.8	15.5	12.1	5.5	4.9	5.5	4.9	5.0
27	3.8	4.3	14.5	5.1	14.5	13.7	10.5	5.4	5.5	5.4	4.5	4.9
28	3.6	4.3	18.5	4.9	17.6	12.8	14.8	5.2	6.2	5.8	4.1	4.0
29	3.8	4.3	18.7	5.1	16.5	20.2	20.3	5.6	6.5	6.0	3.8	4.8
30	4.0	4.3	14.6	8.8	.....	28.5	22.7	7.8	6.8	5.6	3.6	4.4
31	2.9	.....	13.1	13.5	.....	31.3	.....	9.8	.....	5.9	3.4	.....

Daily gage height, in feet, of Tennessee River at Chattanooga, Tenn.—Cont'd.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1913.												
1	3.8	1.9	1.6	7.4	15.1	22.4	26.9	5.5	10.1	3.2	2.6	1.6
2	3.4	1.8	1.6	8.2	12.9	21.6	17.1	5.4	9.2	3.1	2.5	1.5
3	3.1	1.8	1.6	8.2	10.7	16.7	12.5	5.3	9.2	3.0	2.5	1.5
4	2.8	1.8	1.7	8.6	10.1	13.0	10.9	5.1	8.6	3.1	2.5	1.5
5	2.6	1.8	3.2	8.2	9.9	10.5	9.9	4.9	8.0	3.1	2.6	1.5
6	2.5	1.8	7.0	7.2	9.9	9.0	9.2	4.8	7.5	3.1	2.6	1.5
7	2.4	1.8	9.6	7.1	9.6	8.1	8.5	4.6	7.4	3.1	2.5	1.4
8	2.3	1.8	10.2	16.0	9.0	7.4	8.0	4.6	7.4	3.1	2.2	1.2
9	2.2	2.0	8.5	17.9	8.1	6.9	7.6	4.6	7.6	3.2	2.1	1.2
10	2.1	2.7	7.0	16.4	7.3	6.6	7.2	4.6	7.5	2.9	2.1	1.2
11	2.0	3.2	5.9	14.5	6.9	7.1	6.9	4.7	8.6	2.7	2.3	1.3
12	1.9	3.4	5.0	12.2	8.0	8.0	6.8	4.7	7.8	2.5	2.7	1.3
13	1.9	3.3	4.5	12.0	10.1	8.6	6.7	4.5	6.9	2.5	2.7	1.3
14	1.9	3.0	4.0	12.0	13.8	14.1	7.0	4.4	6.0	2.8	2.8	1.2
15	1.9	2.7	3.7	11.2	11.8	24.1	7.8	4.2	5.3	2.8	2.6	1.1
16	1.9	2.5	3.5	10.4	10.1	30.0	7.8	4.2	4.9	2.6	2.4	1.0
17	2.2	2.5	3.3	9.2	8.6	31.3	8.3	4.2	4.7	2.4	2.2	1.0
18	2.4	2.3	3.3	8.0	7.8	30.4	8.8	4.2	4.4	2.3	2.2	1.0
19	2.4	2.1	3.3	8.6	7.1	25.4	8.7	4.5	4.3	2.2	2.1	1.0
20	2.4	2.1	3.5	10.3	6.6	17.5	8.3	5.2	4.1	2.0	2.1	1.0
21	2.7	2.1	3.5	10.2	6.6	13.1	7.8	5.7	3.9	1.9	2.1	1.5
22	2.8	2.0	3.4	10.1	6.6	12.9	7.2	5.3	3.9	1.8	2.1	1.6
23	2.7	2.0	3.2	10.6	6.5	12.9	6.7	5.1	3.9	1.7	2.0	1.8
24	2.4	1.9	3.2	11.2	6.3	12.3	6.2	6.9	3.9	1.7	2.0	2.3
25	2.3	1.9	3.4	15.2	6.2	11.2	5.9	12.3	3.8	1.7	2.0	2.3
26	2.2	1.8	3.9	19.9	5.8	10.1	5.7	16.0	3.5	1.7	1.9	2.2
27	2.1	1.8	4.1	20.8	6.1	13.3	5.6	16.0	3.4	2.0	1.9	2.2
28	2.1	1.8	4.1	21.7	13.7	25.4	5.5	13.5	3.4	2.1	1.9	1.9
29	2.0	1.7	4.0	23.2	.....	31.2	5.5	11.4	3.4	2.1	1.9	1.7
30	2.0	1.6	4.0	22.6	.....	33.2	5.5	11.1	3.3	2.5	1.9	1.7
31	1.9	.....	5.2	19.1	.....	32.9	.....	11.5	.....	2.7	1.7	.....

Daily discharge, in second-feet, of Tennessee River at Chattanooga, Tenn.

Day.	Apr.	May.	June.	July.	Aug.	Sept.	Day.	Apr	May	June.	July.	Aug.	Sept.
1874.							1874.						
1	38,200	195,000	21,200	16,300	45,000	89,200	16	147,000	42,300	23,500	17,900	10,600	11,000
2	38,200	190,000	20,700	16,900	36,200	55,200	17	159,000	34,800	21,800	12,800	9,750	11,400
3	37,500	174,000	20,700	16,300	29,600	34,800	18	148,000	32,800	21,800	17,400	9,350	14,300
4	34,800	169,000	22,900	14,800	23,500	28,300	19	144,000	34,100	21,200	16,300	8,580	16,300
5	30,800	167,000	23,500	14,300	16,900	20,100	20	132,000	32,800	20,100	15,800	8,580	16,300
6	29,600	162,000	22,900	13,800	17,900	17,900	21	124,000	32,100	19,600	13,800	7,850	16,300
7	32,100	154,000	22,900	11,900	19,000	17,900	22	124,000	29,600	20,100	12,400	7,850	15,300
8	45,000	140,000	22,900	10,600	23,500	17,900	23	125,000	29,000	14,800	10,600	8,210	13,800
9	82,400	123,000	22,400	9,750	25,300	20,100	24	151,000	27,100	13,800	10,600	12,800	12,800
10	103,000	99,400	21,800	10,200	19,600	16,300	25	144,000	22,900	12,800	11,400	11,900	12,800
11	110,000	56,600	21,800	11,000	17,900	11,900	26	161,000	27,100	11,900	16,300	12,800	12,800
12	106,000	60,000	22,400	12,800	15,300	11,000	27	172,000	26,500	11,400	19,600	12,800	12,800
13	96,700	60,000	25,900	12,800	12,800	10,600	28	170,000	25,300	12,800	25,900	26,500	13,800
14	97,400	53,200	25,900	14,300	12,800	11,000	29	178,000	23,500	16,300	37,500	55,200	16,300
15	103,000	43,000	32,800	15,800	11,000	11,000	30	190,000	23,500	16,900	43,000	90,600	17,900
							31	.....	23,500	.....	51,800	92,600	.....

Daily discharge, in second-feet, of Tennessee River at Chattanooga, Tenn.—Continued.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1875.												
1	19,000	9,350	56,600	37,500	201,000	361,000	80,400	136,000	19,000	29,600	31,500	20,700
2	25,300	8,580	62,500	41,600	167,000	341,000	94,600	123,000	17,900	32,100	30,800	17,900
3	27,700	8,580	48,400	79,000	110,000	307,000	126,000	80,400	17,900	30,200	30,200	17,900
4	27,100	8,580	38,900	85,800	72,200	286,000	133,000	65,400	19,600	29,600	30,200	17,900
5	22,400	7,850	28,300	93,300	64,700	278,000	123,000	57,900	22,900	28,900	34,100	17,400
6	11,900	7,160	23,300	82,400	58,600	267,000	110,000	52,500	27,100	28,300	45,000	16,900
7	11,900	6,830	25,200	72,200	51,100	246,000	89,200	46,400	26,500	29,600	36,200	16,300
8	12,400	6,830	22,800	83,800	49,800	212,000	74,200	43,000	24,700	30,830	30,800	15,800
9	11,900	7,850	20,700	60,600	42,300	174,000	64,700	39,600	27,100	34,100	28,300	14,800
10	11,900	9,750	16,900	58,600	38,900	145,000	57,900	37,500	27,700	33,400	25,300	14,800
11	11,900	15,800	16,300	54,500	37,500	129,000	62,000	36,200	25,300	32,100	24,700	14,800
12	11,000	22,400	15,800	40,200	40,900	108,000	77,000	36,200	22,400	36,200	25,300	15,800
13	10,600	21,800	20,700	36,200	44,300	90,600	83,800	34,800	20,700	45,000	28,300	15,300
14	10,600	20,100	20,700	34,800	47,000	81,000	77,000	32,100	17,900	56,600	30,800	14,300
15	10,600	19,000	21,200	33,400	53,800	79,000	65,400	30,800	17,400	72,900	34,100	14,800
16	9,350	17,460	49,800	28,300	56,600	137,000	58,600	28,900	16,900	130,000	47,700	14,800
17	8,580	16,300	49,800	27,700	51,100	176,000	53,200	27,100	21,200	119,000	67,400	14,800
18	8,210	14,200	48,400	27,100	46,400	185,000	48,400	25,900	21,800	87,200	77,000	15,300
19	10,200	11,900	47,700	26,500	43,000	171,000	45,000	25,300	26,500	66,100	70,200	37,500
20	15,800	13,800	38,200	25,300	41,800	145,000	42,300	23,500	25,900	51,100	64,700	70,200
21	16,900	14,800	36,200	24,100	45,700	193,000	40,900	24,100	26,500	46,400	55,200	62,000
22	14,800	13,800	34,800	23,500	51,800	216,000	42,300	23,500	25,900	39,600	42,300	43,000
23	12,800	55,200	37,500	22,900	51,800	225,000	47,000	22,900	29,600	43,000	35,500	33,400
24	12,800	59,300	45,700	28,300	116,000	223,000	51,800	22,400	32,100	60,600	31,800	28,900
25	12,800	66,800	40,900	47,700	235,000	184,000	60,600	22,400	32,100	82,400	29,600	25,300
26	11,900	67,400	36,200	56,600	299,000	120,000	51,800	21,800	30,200	75,600	29,600	22,900
27	11,000	43,000	29,600	51,100	331,000	92,600	46,400	21,800	28,300	66,800	29,600	20,700
28	9,750	43,000	27,700	47,700	357,000	77,000	55,200	22,400	26,500	60,600	28,300	19,600
29	9,750	36,200	32,800	106,000	.....	92,600	96,000	22,400	25,900	47,700	26,500	19,000
30	9,750	59,300	34,830	188,000	.....	100,000	127,000	21,200	26,500	40,200	22,500	19,600
31	11,900	.....	36,800	215,000	.....	92,600	.....	19,600	.....	34,100	22,400	.....
1876.												
1	19,600	13,300	36,200	205,000	87,200	41,600	77,000	45,700	49,100	40,200	24,700	14,300
2	17,900	13,800	33,400	153,000	87,800	39,600	83,800	55,200	47,000	36,200	25,900	13,800
3	17,900	13,800	32,800	100,000	87,800	37,500	85,800	77,000	46,400	37,500	29,600	16,900
4	17,900	13,800	33,400	81,000	81,000	36,200	76,300	83,800	48,400	39,600	27,100	16,300
5	16,900	13,800	38,200	69,500	79,000	34,800	67,400	76,300	49,800	41,600	25,900	14,300
6	16,900	15,800	45,700	62,000	74,900	33,400	59,300	63,400	51,100	42,300	34,800	12,800
7	22,900	17,900	54,500	55,200	63,400	32,100	53,800	62,000	51,100	46,400	32,800	12,400
8	32,100	22,400	53,800	49,100	62,000	34,100	49,800	70,200	46,400	43,000	29,600	12,400
9	29,600	26,500	55,900	45,000	63,400	40,900	46,400	106,000	40,900	41,600	27,700	11,900
10	24,700	29,600	55,200	41,600	64,700	48,400	43,000	130,000	35,500	38,900	25,900	11,900
11	22,400	32,100	53,200	40,200	63,400	47,000	41,600	120,000	32,100	36,800	24,700	12,800
12	20,100	37,500	49,800	39,600	64,700	45,700	39,600	118,000	29,600	34,800	25,300	13,800
13	19,000	39,600	45,700	36,200	70,200	42,300	37,500	97,400	28,300	32,100	23,500	14,300
14	17,400	38,900	41,600	34,800	81,000	41,600	40,200	77,000	27,700	29,600	22,400	13,800
15	16,900	37,500	37,500	32,800	108,000	43,600	63,400	64,700	27,100	27,100	20,700	12,800
16	15,800	37,500	34,100	30,800	136,000	68,800	85,180	58,600	30,800	27,100	20,100	12,800
17	15,800	40,200	31,500	29,600	143,000	129,000	76,300	53,800	67,400	27,100	20,700	12,800
18	15,800	38,200	29,600	34,100	122,000	137,000	74,200	49,100	118,000	27,700	21,200	11,900
19	15,800	33,400	27,100	51,100	103,000	115,000	69,400	46,400	144,000	27,100	20,100	11,900
20	15,300	31,500	25,300	80,400	77,000	90,600	56,600	46,400	183,000	28,900	19,600	11,400
21	14,800	29,600	23,500	92,600	64,700	77,000	53,200	48,400	125,000	27,700	19,000	11,900
22	14,300	36,200	23,500	92,600	60,600	69,500	50,400	46,400	74,200	28,300	17,900	14,800
23	14,300	42,100	22,400	83,100	60,600	62,700	43,000	46,400	68,800	29,600	16,900	14,300
24	13,800	34,800	23,500	74,900	57,200	60,600	40,900	43,000	56,600	26,500	16,300	13,800
25	12,800	38,900	27,700	79,000	53,200	81,000	39,600	39,600	49,100	23,500	15,800	13,800
26	12,800	43,000	47,700	101,000	51,800	109,000	38,200	41,600	48,400	22,400	16,300	15,800
27	12,800	46,200	82,400	91,900	48,400	111,000	36,200	43,000	51,800	21,200	16,300	19,000
28	12,800	40,200	125,000	75,600	46,400	102,000	34,800	48,400	49,100	21,200	15,800	17,400
29	12,800	40,200	180,000	66,100	43,000	101,000	36,200	67,400	47,700	20,100	15,800	14,800
30	12,800	38,900	218,000	75,600	.....	101,000	39,600	60,600	43,000	19,000	14,800	13,800
31	12,800	.....	227,000	93,300	.....	85,800	.....	53,800	.....	21,200	14,300	.....

Daily discharge, in second-feet, of Tennessee River at Chattanooga, Tenn. —Continued.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1877.												
1	12,800	10,200	13,800	17,900	36,200	17,400	65,400	71,500	19,000	22,400	13,800	11,000
2	12,400	9,750	13,800	14,800	33,400	17,900	49,800	60,600	17,900	20,700	12,800	10,600
3	11,400	9,350	13,800	11,000	32,100	24,700	63,400	53,200	17,900	19,000	12,800	9,750
4	11,000	9,350	15,300	10,600	31,500	40,200	66,100	47,700	17,400	17,400	12,800	9,750
5	11,000	9,750	14,300	13,800	32,800	32,800	60,600	44,300	16,900	14,800	12,400	9,750
6	11,000	9,750	11,900	12,800	33,400	31,500	56,600	43,600	16,300	14,300	11,900	9,350
7	10,600	9,750	11,000	15,300	32,100	30,800	58,600	45,700	15,800	13,800	11,000	11,900
8	10,200	9,750	11,000	25,900	29,600	29,600	88,500	45,700	16,900	13,800	11,000	15,200
9	9,750	9,350	11,000	34,100	28,900	41,600	150,000	47,700	17,400	15,800	10,600	14,300
10	9,750	9,350	10,600	32,800	27,700	75,600	184,000	49,800	17,900	15,800	10,000	11,900
11	9,350	9,350	10,200	29,600	25,900	100,000	189,000	49,100	17,900	13,800	10,600	13,800
12	8,580	9,350	9,750	31,500	25,300	94,600	171,000	48,400	19,600	12,800	10,600	17,900
13	8,580	9,350	9,350	33,400	23,500	82,400	133,000	45,000	20,100	12,800	10,200	17,900
14	8,210	8,580	10,200	62,000	23,500	72,200	116,000	40,900	19,600	11,900	10,200	15,800
15	8,210	8,580	11,000	86,500	22,400	72,900	112,000	37,500	19,600	11,900	10,200	12,800
16	8,210	8,580	11,400	116,000	21,200	61,300	108,000	34,800	19,000	11,400	11,400	11,900
17	8,210	9,350	12,800	140,000	21,200	55,900	96,000	33,400	19,000	14,800	12,800	11,000
18	7,850	9,350	12,800	148,000	20,100	53,800	82,400	33,400	19,000	12,400	11,900	11,000
19	7,850	9,750	12,400	154,000	19,000	52,500	74,900	30,800	19,000	12,400	10,600	11,000
20	7,850	10,600	11,900	144,000	19,000	49,800	77,000	27,700	19,600	17,400	9,750	11,900
21	8,210	11,400	11,900	152,000	17,900	46,400	99,200	27,100	20,100	20,100	9,350	14,800
22	8,210	12,800	11,000	174,000	17,900	44,300	97,400	27,100	22,900	20,700	8,980	15,300
23	9,750	12,800	11,000	178,000	17,900	42,300	101,000	27,100	28,900	20,100	8,980	16,900
24	11,900	14,300	12,800	157,000	17,900	40,900	89,200	24,700	27,700	22,900	9,350	15,800
25	19,000	19,000	13,800	120,000	19,000	39,600	72,900	23,500	22,900	29,600	9,750	14,800
26	17,900	21,800	15,800	82,400	19,000	47,000	60,600	22,400	20,700	26,500	14,300	12,800
27	14,800	19,600	16,900	68,100	17,900	62,000	57,900	21,200	19,000	28,500	13,800	12,800
28	13,800	17,400	16,900	58,600	17,400	87,800	79,000	21,200	17,900	23,500	13,800	12,800
29	12,800	15,300	17,900	49,800	.....	108,000	91,900	20,100	19,600	20,100	12,400	12,800
30	11,000	14,300	16,900	45,000	.....	99,400	79,000	20,100	22,400	17,900	11,400	11,000
31	10,600	.....	19,000	40,200	.....	77,000	.....	19,600	.....	15,300	10,600	.....
1878.												
1	10,200	12,800	43,080	53,200	72,900	51,800	27,700	40,200	22,900	12,800	15,800	22,400
2	9,750	15,200	37,500	62,700	72,200	45,000	26,500	36,200	20,100	12,800	20,100	20,700
3	9,350	35,500	32,100	55,900	63,400	43,000	25,300	34,800	19,000	14,300	17,900	19,600
4	8,580	45,000	29,600	47,000	54,500	43,000	23,500	34,800	17,900	15,300	17,400	19,600
5	8,580	36,200	29,600	43,000	48,400	49,100	24,700	32,800	17,400	14,300	15,800	17,900
6	9,750	32,100	36,200	38,200	43,000	47,700	26,500	38,200	16,900	12,800	14,300	14,800
7	12,800	29,600	44,300	34,100	40,200	46,400	27,700	40,900	17,400	12,400	11,900	12,400
8	22,400	28,300	43,000	30,800	42,300	43,000	28,300	43,000	16,900	11,900	11,000	11,400
9	17,900	25,300	38,900	27,700	49,100	40,900	28,300	44,300	16,300	12,400	10,200	10,200
10	19,000	23,500	36,200	29,600	72,900	38,900	29,600	40,900	17,900	12,800	9,350	9,350
11	17,900	27,700	32,100	39,600	83,800	37,500	40,200	37,500	19,000	13,800	8,580	8,580
12	16,300	31,500	29,600	55,200	79,000	37,500	48,400	34,100	17,900	13,800	8,580	8,210
13	15,800	29,600	27,700	70,200	68,800	44,300	48,400	31,500	17,900	12,800	9,350	7,850
14	14,300	25,300	25,900	79,000	57,900	54,500	42,300	28,900	17,000	12,400	10,200	7,500
15	12,800	22,900	23,500	71,500	49,800	62,700	38,200	27,700	17,900	12,400	12,400	7,500
16	11,900	21,200	23,500	62,000	47,000	66,100	35,500	27,100	17,900	12,400	16,300	66,100
17	11,400	20,700	21,800	54,500	45,000	55,900	33,400	26,500	16,300	12,800	22,400	49,800
18	10,200	21,200	21,200	49,800	42,300	49,800	32,100	26,500	15,800	11,900	20,700	32,100
19	10,200	19,600	20,100	45,000	40,200	43,000	30,200	29,600	15,300	12,400	16,900	22,400
20	10,600	19,000	19,600	41,600	38,900	38,900	35,500	34,100	14,800	11,400	15,300	17,400
21	13,300	19,000	19,000	38,900	40,900	36,200	36,200	41,600	15,800	11,000	13,800	15,300
22	15,300	29,600	17,900	37,500	55,200	33,400	35,500	41,600	15,300	10,200	11,900	12,800
23	17,900	40,200	17,900	38,900	72,900	31,500	33,400	33,400	15,300	10,200	16,300	11,900
24	17,900	47,700	19,000	39,600	113,000	29,600	38,900	28,900	17,900	9,750	23,500	11,400
25	17,900	60,600	24,700	38,900	125,000	28,300	58,600	26,500	16,900	8,580	21,200	11,900
26	15,800	89,900	41,600	38,200	101,000	27,700	56,600	23,500	15,300	8,580	16,300	12,400
27	14,800	98,000	47,000	38,200	78,300	25,900	51,800	22,900	14,500	8,580	12,800	11,400
28	13,300	85,100	45,000	37,500	66,800	25,900	51,100	22,400	13,800	8,210	13,800	11,400
29	13,300	66,100	43,000	40,900	.....	27,700	49,800	22,900	13,800	8,580	15,800	11,000
30	13,300	52,500	47,000	43,000	.....	29,600	45,700	25,300	12,800	9,350	17,900	10,600
31	13,300	.....	51,800	60,000	.....	29,600	.....	25,900	.....	14,300	22,900	.....

Daily discharge, in second-feet, of Tennessee River at Chattanooga, Tenn. —Continued.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1879.												
1	9,750	17,900	92,600	32,800	73,600	68,800	33,400	24,100	18,500	8,210	12,800	13,800
2	8,580	19,680	63,800	36,800	72,908	66,100	44,200	24,100	18,500	8,580	21,800	12,800
3	8,580	19,000	77,000	45,700	62,000	56,600	51,100	23,500	16,900	8,580	22,900	12,400
4	8,210	19,600	73,600	45,000	52,500	51,800	51,800	22,900	15,800	8,580	24,100	12,800
5	7,850	17,900	68,800	36,200	50,400	46,400	43,000	21,800	15,300	8,580	22,400	12,800
6	7,850	16,300	60,000	32,100	57,200	42,300	38,200	21,200	14,800	8,580	18,500	14,800
7	8,210	14,800	48,400	23,500	69,500	39,600	36,200	29,600	13,800	8,210	17,900	15,800
8	8,210	13,800	40,200	28,100	69,500	36,800	33,400	37,500	13,300	7,850	16,300	14,300
9	8,580	12,800	36,200	49,100	62,000	34,800	32,800	33,400	12,800	7,500	16,300	12,400
10	9,750	12,800	45,000	132,000	62,000	34,100	36,200	27,100	11,900	7,500	15,800	11,400
11	10,200	11,900	56,600	157,000	55,200	32,100	48,400	24,100	12,400	7,850	16,300	9,750
12	10,200	11,400	68,100	181,000	50,400	31,500	53,800	21,800	12,800	7,850	14,800	9,350
13	10,200	11,000	61,300	217,000	49,100	28,300	49,800	20,100	13,800	7,850	14,300	8,980
14	10,600	11,000	65,400	250,000	47,000	29,600	44,300	19,600	15,300	7,850	12,800	8,580
15	11,400	11,400	62,000	252,000	43,600	29,600	40,200	21,800	15,800	7,500	11,400	8,580
16	11,400	11,900	68,800	250,000	40,200	28,300	39,600	21,800	15,300	7,500	11,000	7,850
17	11,400	11,900	73,600	183,000	45,700	27,700	47,700	22,400	16,300	8,210	12,400	7,850
18	11,000	11,900	67,400	110,000	93,300	27,700	50,400	29,600	14,300	7,850	11,900	7,580
19	10,200	11,900	61,300	89,200	122,000	27,100	49,800	33,400	12,800	7,850	10,600	7,500
20	10,200	12,800	52,500	92,600	110,000	26,500	48,400	34,800	11,900	7,850	10,600	7,500
21	10,200	12,800	45,000	89,200	88,500	25,300	48,400	34,100	10,200	8,980	8,580	7,160
22	10,200	13,800	45,700	81,000	72,200	26,500	44,300	33,400	9,750	8,580	8,980	7,160
23	10,600	12,800	49,800	68,100	65,400	38,900	41,600	32,800	9,350	7,850	11,000	6,830
24	11,000	14,300	53,200	57,200	66,100	40,200	38,200	26,500	8,980	7,500	14,800	6,510
25	12,400	15,300	55,200	52,500	76,300	40,200	34,800	25,300	8,980	7,850	15,800	6,200
26	32,100	17,900	49,800	47,700	78,300	40,900	29,600	23,500	8,980	7,160	18,500	6,200
27	41,600	48,400	43,000	44,300	75,600	40,200	27,700	20,100	8,580	7,500	22,400	5,900
28	30,800	103,000	36,200	41,600	72,200	38,900	26,500	18,500	8,210	8,580	22,900	5,900
29	24,700	116,000	31,500	40,900	.....	37,500	25,900	17,900	7,850	10,600	21,800	5,900
30	20,700	103,000	28,900	45,700	.....	36,200	24,700	16,900	7,850	11,400	19,000	5,900
31	17,900	.....	30,800	49,800	.....	33,400	.....	17,400	.....	11,000	15,800	.....
1880.												
1	5,610	13,800	31,500	47,700	28,500	55,200	47,700	92,600	31,500	17,900	11,000	13,800
2	5,610	13,300	27,100	43,000	24,100	49,100	45,700	92,600	32,800	16,900	10,600	12,800
3	5,610	12,800	25,300	38,900	28,300	45,700	55,200	82,400	34,800	19,000	11,000	12,400
4	5,610	11,900	22,400	34,800	36,200	57,200	92,600	73,600	36,200	30,200	11,400	13,800
5	5,330	11,400	20,700	32,100	39,600	87,200	109,000	61,300	31,500	47,000	14,800	16,300
6	5,330	11,000	20,700	30,800	36,200	110,000	99,400	53,200	29,600	40,200	15,800	17,400
7	5,330	10,600	27,100	38,200	33,400	101,000	82,400	48,400	27,100	33,400	14,800	17,400
8	5,330	10,200	27,100	47,000	30,800	100,000	77,600	45,000	24,700	32,100	24,100	16,300
9	5,330	10,200	26,500	58,600	28,300	123,000	68,100	40,200	23,500	26,500	23,500	15,800
10	5,330	9,750	24,700	66,100	25,900	161,000	59,300	37,500	22,400	23,500	23,500	13,800
11	8,980	10,200	40,900	62,000	24,700	184,000	52,500	34,800	20,700	21,800	25,900	15,800
12	10,200	11,900	93,300	59,300	24,700	187,000	53,800	34,100	19,600	20,100	21,800	17,900
13	12,800	12,400	96,000	54,500	30,800	189,000	47,000	33,400	19,600	18,500	20,700	20,700
14	11,400	12,400	77,000	48,400	78,300	188,000	41,600	32,100	19,000	17,900	21,200	21,200
15	10,600	12,400	57,800	45,700	150,000	188,000	38,200	30,800	17,900	16,900	24,100	19,600
16	8,980	11,900	116,000	41,600	176,000	211,000	49,100	29,600	16,900	16,300	20,100	17,900
17	8,980	12,400	115,000	38,200	176,000	232,000	69,500	27,100	16,300	24,700	20,700	16,300
18	10,600	15,800	100,000	36,200	129,000	254,000	77,000	25,900	15,800	21,200	16,900	15,800
19	37,500	24,100	78,300	34,800	75,600	250,000	72,200	24,100	15,800	21,200	15,800	12,800
20	85,100	27,700	61,300	33,400	58,600	237,000	66,100	23,500	15,800	15,800	14,800	11,900
21	68,800	25,900	48,400	32,100	52,500	184,000	70,800	23,500	15,300	13,800	13,800	11,000
22	57,200	23,500	43,000	30,800	47,700	137,000	74,900	23,500	14,300	14,300	19,000	10,200
23	44,300	19,000	52,500	32,100	44,300	107,000	66,100	22,900	13,800	14,800	20,100	9,350
24	32,800	16,900	110,000	30,800	40,900	88,500	60,000	32,100	13,300	16,300	21,200	9,750
25	32,800	15,300	138,000	29,600	37,500	75,600	55,200	33,400	13,300	17,900	22,400	9,350
26	22,900	14,300	143,000	27,100	34,800	66,800	62,700	46,400	13,300	17,400	24,100	9,350
27	21,200	13,300	141,000	25,900	45,000	60,000	82,400	44,300	12,800	16,900	25,900	9,750
28	19,000	13,300	115,000	25,300	57,200	56,600	89,200	38,900	12,800	15,300	27,100	11,900
29	16,900	16,300	91,900	24,100	56,600	53,800	79,700	34,100	12,800	13,800	15,800	17,400
30	16,300	27,700	71,500	23,500	.....	52,500	87,200	32,100	15,800	12,800	15,300	22,400
31	14,800	.....	57,900	23,500	.....	49,800	.....	32,100	.....	11,900	14,800	.....

Daily discharge, in second-feet, of Tennessee River at Chattanooga, Tenn. —Continued.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1881.												
1	19,000	8,580	113,000	24,700	34,100	55,200	48,400	53,800	18,800	12,400	7,850	5,080
2	16,900	8,580	153,000	17,900	38,200	53,800	80,400	48,400	19,000	17,400	7,500	6,200
3	15,300	9,750	174,000	19,000	64,000	49,100	51,100	45,000	20,100	19,600	7,160	7,500
4	13,300	12,800	144,000	20,700	68,800	46,400	49,100	41,600	24,700	20,100	6,830	8,210
5	12,800	11,900	102,000	24,100	63,400	43,000	46,400	40,900	25,300	20,100	6,510	7,500
6	11,400	12,800	98,700	37,500	53,800	41,600	43,000	43,000	23,500	17,400	6,510	6,830
7	11,000	13,800	117,000	55,900	45,700	38,900	41,600	43,000	21,800	14,800	7,160	5,900
8	10,600	13,800	112,000	67,400	46,400	40,900	41,600	40,900	21,900	13,300	7,500	5,330
9	10,200	14,300	93,300	74,200	61,300	40,200	40,900	38,900	22,400	11,900	7,850	5,080
10	9,750	16,300	70,200	74,900	86,500	37,500	47,000	37,500	28,300	11,000	8,210	5,080
11	9,350	21,200	53,800	74,200	109,000	36,200	53,200	37,500	28,900	10,200	18,500	4,800
12	9,350	23,500	45,000	79,700	128,000	35,500	61,300	33,400	25,900	9,350	16,900	4,800
13	8,960	23,500	39,600	74,200	146,000	36,200	77,000	31,500	22,400	9,350	13,300	4,800
14	8,580	22,900	35,500	70,200	142,000	35,500	101,000	29,600	20,100	10,200	13,300	4,800
15	8,580	23,500	32,800	62,700	116,000	35,500	116,000	28,900	20,100	9,750	8,960	5,330
16	7,850	20,700	31,500	60,000	94,000	45,000	116,000	27,100	22,400	11,900	8,210	5,330
17	8,580	19,000	34,800	57,200	75,600	54,500	103,000	25,900	21,800	11,900	7,850	5,330
18	8,580	16,900	33,400	52,500	62,700	66,100	81,000	24,700	19,000	12,400	6,510	9,350
19	8,960	15,300	43,600	48,400	64,700	88,500	67,400	23,500	18,500	11,900	8,210	28,300
20	8,580	13,800	43,000	52,500	78,300	125,000	60,000	22,900	15,800	11,000	6,830	28,300
21	8,580	13,300	41,600	82,400	91,900	125,000	53,800	22,400	14,800	15,300	7,160	72,200
22	8,210	12,800	38,900	112,000	91,900	97,400	48,400	21,200	14,800	12,800	7,160	48,400
23	8,210	11,900	35,500	122,000	87,800	81,700	47,700	21,200	17,900	11,000	6,200	33,400
24	7,850	11,000	33,400	112,000	70,200	71,500	48,400	21,800	16,900	9,350	6,200	23,500
25	8,210	11,000	31,500	98,700	60,000	62,000	51,100	21,800	15,800	8,960	6,510	19,000
26	8,210	10,600	32,100	70,800	54,500	56,600	85,200	22,400	14,300	10,200	6,510	13,300
27	7,850	10,600	34,800	56,000	48,400	53,200	67,400	21,200	13,300	11,000	6,200	14,800
28	7,850	13,300	34,800	48,400	53,200	55,200	74,200	20,100	12,800	10,600	5,610	14,800
29	8,210	42,300	33,400	41,600	.....	53,800	65,400	19,000	12,800	10,600	6,200	15,800
30	7,850	85,800	30,800	38,200	.....	50,400	55,200	18,500	12,800	9,350	6,900	16,900
31	8,210	.....	26,900	35,500	.....	49,100	.....	17,900	.....	8,580	5,330	.....
1882.												
1	15,800	40,200	28,300	101,000	197,000	83,800	70,200	40,900	51,100	25,900	22,400	32,100
2	15,300	60,600	28,300	89,900	194,000	124,000	61,300	38,200	53,800	34,800	24,100	34,100
3	13,800	56,600	35,500	74,900	130,000	144,000	54,500	34,800	62,000	36,800	27,100	36,800
4	12,800	51,100	35,500	62,700	118,000	130,000	51,100	32,100	55,900	35,500	36,200	30,900
5	10,600	38,900	34,100	54,500	145,000	114,000	47,700	29,600	52,500	34,100	35,500	29,600
6	8,900	30,200	33,400	57,900	160,000	94,600	44,300	28,300	48,400	40,900	36,800	27,100
7	8,580	25,900	30,800	85,800	150,000	84,400	43,000	30,200	47,700	38,900	34,800	23,500
8	8,210	25,900	27,700	140,000	127,000	85,100	44,300	29,600	38,200	32,100	30,800	21,200
9	7,850	23,500	25,000	176,000	120,000	101,000	48,400	28,900	32,800	27,700	27,700	22,900
10	7,500	34,800	23,500	195,000	130,000	123,000	51,800	27,700	30,200	24,100	26,500	24,100
11	7,500	36,200	21,200	197,000	148,000	137,000	60,000	36,200	27,700	21,800	24,700	30,800
12	7,160	37,500	20,700	197,000	153,000	112,000	58,600	32,800	26,500	21,200	22,900	76,300
13	7,160	38,900	19,000	200,000	154,000	99,400	53,800	29,600	25,300	21,800	21,800	142,000
14	7,160	40,200	24,100	202,000	144,000	94,600	56,600	40,200	26,500	23,500	20,700	149,000
15	6,830	38,900	74,200	200,000	133,000	85,800	45,700	34,100	28,300	24,300	19,000	111,000
16	6,830	34,100	112,000	199,000	139,000	70,200	43,000	33,800	27,100	38,200	17,900	67,400
17	6,510	29,600	108,000	222,000	144,000	61,300	41,600	30,200	26,500	34,100	17,900	46,400
18	6,510	25,900	98,000	250,000	133,000	62,700	38,200	30,200	32,800	27,100	22,400	37,500
19	6,200	22,400	75,600	267,000	118,000	72,200	35,500	28,300	47,700	22,900	29,600	31,500
20	6,510	20,700	53,800	267,000	108,000	63,400	33,400	25,900	49,100	22,400	28,900	27,100
21	6,200	19,000	47,700	261,000	99,400	60,600	32,100	25,300	43,000	24,100	25,900	24,700
22	5,900	17,900	98,700	258,000	91,200	61,300	31,500	28,900	37,500	24,100	21,200	25,300
23	7,160	19,000	131,000	258,000	86,500	60,600	49,100	32,100	34,800	23,500	17,900	22,400
24	7,850	34,800	119,000	250,000	80,400	60,600	63,400	32,800	35,500	22,400	15,800	21,200
25	7,850	60,600	100,000	229,000	72,900	57,900	62,700	33,400	36,200	20,700	14,300	20,100
26	7,500	60,000	94,600	180,000	66,100	53,800	58,600	32,100	36,800	19,000	13,800	19,000
27	8,210	62,000	90,600	118,000	60,000	53,200	55,200	49,200	35,500	18,500	15,800	17,900
28	8,580	52,500	95,300	94,600	57,200	64,700	49,800	38,900	28,900	19,000	16,900	16,900
29	8,960	38,200	101,000	138,000	.....	84,400	46,400	45,000	28,300	20,100	21,200	16,300
30	11,900	32,100	109,000	195,000	.....	86,500	43,000	53,200	26,500	20,700	23,500	16,300
31	17,460	.....	107,000	200,000	.....	79,700	.....	53,200	.....	19,000	26,500	.....

Daily discharge, in second-feet, of Tennessee River at Chattanooga, Tenn.
—Continued.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1883.												
1	16,900	13,800	26,500	25,300	57,900	47,700	96,700	68,800	21,200	22,900	9,750	9,750
2	15,800	15,300	23,500	24,700	55,200	43,600	159,000	64,000	21,200	22,400	9,350	8,900
3	15,800	16,300	20,700	22,900	49,100	40,900	172,000	56,600	19,600	20,100	9,750	8,210
4	15,300	15,300	18,500	21,200	45,700	38,900	154,000	51,100	18,500	18,500	10,200	7,500
5	14,800	14,300	16,900	21,800	45,000	36,200	108,000	47,000	17,900	16,900	11,400	7,160
6	14,800	12,800	15,800	25,300	47,000	34,800	80,400	43,600	19,000	16,300	10,200	6,830
7	14,300	11,900	15,300	44,300	57,900	38,200	87,800	40,900	20,700	15,300	9,750	6,510
8	13,800	11,400	14,300	70,800	64,100	50,400	104,000	38,900	27,100	15,300	10,600	6,200
9	12,800	11,000	12,800	81,000	94,600	60,000	110,000	36,200	30,800	15,800	11,900	5,900
10	12,800	11,000	12,800	78,300	114,000	60,600	109,000	34,800	30,200	16,300	11,400	5,900
11	11,300	10,600	13,300	70,800	106,000	57,200	110,000	34,100	28,900	16,300	10,200	5,610
12	11,400	10,600	20,700	57,900	92,600	51,800	112,000	34,100	26,500	17,000	8,960	5,330
13	11,000	11,000	19,000	50,400	84,400	49,800	118,000	33,400	32,100	22,400	8,580	5,330
14	11,000	11,900	18,500	58,600	85,800	47,700	121,000	32,100	34,800	22,400	8,960	5,060
15	11,000	15,300	19,000	91,900	83,100	42,300	111,000	30,800	40,900	20,100	9,350	5,060
16	11,000	15,800	18,500	107,000	74,200	39,600	96,000	30,800	38,200	19,600	9,750	5,060
17	11,000	15,300	17,400	101,000	67,400	37,500	89,200	30,800	33,400	17,900	13,800	5,060
18	10,600	14,800	16,300	110,000	62,000	35,500	96,700	29,600	28,300	15,800	13,300	5,060
19	11,000	13,800	14,300	129,000	61,300	33,400	100,000	27,700	25,300	16,900	14,800	4,800
20	11,900	12,800	14,800	148,000	64,700	32,100	94,000	27,100	22,900	15,800	14,300	5,060
21	16,300	13,300	19,000	199,000	64,700	31,500	79,700	25,300	20,700	13,300	12,400	5,330
22	24,100	14,800	24,700	283,000	60,600	30,800	69,500	25,300	20,100	12,400	11,000	6,200
23	22,400	14,800	39,600	254,000	55,900	29,600	114,000	25,300	19,600	11,000	10,200	6,830
24	19,000	14,300	55,900	252,000	53,800	28,300	176,000	25,900	21,200	10,200	9,350	10,600
25	17,900	12,800	62,000	218,000	56,600	28,300	208,000	25,300	25,900	10,200	9,350	11,900
26	15,300	11,900	56,600	145,000	57,200	33,400	215,000	24,700	23,500	10,200	8,960	11,400
27	12,800	11,900	49,100	87,200	55,900	36,800	188,000	24,100	21,800	11,000	10,600	13,300
28	12,400	12,400	42,300	68,800	51,100	36,800	129,000	24,100	23,500	11,900	8,960	14,300
29	11,900	12,400	34,100	62,000	.....	37,500	87,800	24,100	22,900	11,000	8,960	12,800
30	11,400	23,500	30,200	60,000	.....	36,800	74,900	22,400	23,500	9,750	9,750	11,400
31	11,900	.....	27,700	59,300	.....	44,300	.....	21,800	.....	9,350	10,200	.....
1884.												
1	9,750	18,500	24,100	38,900	72,200	58,600	72,200	62,700	22,900	50,400	35,500	17,900
2	8,580	19,600	21,800	37,500	127,000	55,900	66,100	56,600	21,800	43,600	60,600	15,800
3	10,200	17,400	19,600	35,500	161,000	52,500	62,700	54,500	21,200	40,200	43,000	12,800
4	8,960	15,300	17,400	34,100	167,000	49,800	61,300	55,200	21,200	41,600	31,500	11,900
5	9,350	12,400	16,300	31,500	133,000	47,700	57,900	54,500	19,600	39,600	34,800	10,600
6	11,000	11,000	15,300	28,900	87,200	98,700	53,800	63,400	19,000	38,200	28,900	9,750
7	10,600	10,200	14,300	25,300	84,400	193,000	49,800	71,500	28,300	38,200	22,400	8,960
8	15,800	9,350	14,300	21,800	142,000	244,000	55,200	65,400	30,800	34,800	19,600	8,580
9	35,500	9,350	16,900	19,600	201,000	272,000	51,800	57,900	30,800	33,400	17,900	8,960
10	27,100	8,960	20,100	19,000	233,000	285,000	43,600	51,100	29,600	28,300	17,400	9,750
11	20,700	9,350	22,900	20,100	244,000	282,000	41,600	47,700	34,100	27,700	17,900	10,200
12	15,800	11,000	20,700	28,900	242,000	267,000	40,200	41,600	43,600	28,900	19,600	9,750
13	13,300	14,800	20,100	53,200	225,000	248,000	38,200	40,900	51,100	34,100	19,600	9,750
14	11,000	18,500	18,500	57,900	205,000	237,000	38,900	37,500	52,500	32,100	19,000	8,960
15	10,200	19,000	17,900	62,000	195,000	222,000	58,600	36,200	53,800	28,300	17,900	8,580
16	8,960	16,300	18,500	75,600	189,000	199,000	92,600	34,800	51,800	27,100	17,400	8,210
17	8,210	14,300	19,600	81,700	176,000	163,000	109,000	33,400	41,600	23,500	15,800	7,850
18	8,210	12,800	17,900	76,300	165,000	129,000	96,700	31,500	36,800	21,200	14,300	7,850
19	7,850	12,400	17,900	78,300	167,000	114,000	83,100	29,600	34,800	23,500	12,800	7,850
20	7,500	11,000	21,200	87,800	178,000	120,000	70,200	29,600	30,200	23,500	11,900	7,500
21	7,500	10,200	28,900	94,600	177,000	146,000	62,000	27,700	26,500	22,400	11,400	7,500
22	7,500	12,400	31,500	87,200	152,000	169,000	71,500	28,300	23,500	19,600	11,900	7,160
23	7,500	36,200	30,200	75,600	121,000	182,000	86,500	28,300	22,900	17,900	11,400	7,160
24	8,580	61,300	32,800	68,800	101,000	178,000	87,800	26,500	23,500	16,300	11,900	7,160
25	9,750	68,100	41,600	70,200	84,400	157,000	96,700	27,100	22,900	14,800	12,800	6,830
26	11,000	57,200	66,800	67,400	73,600	137,000	98,700	27,100	23,500	15,800	12,800	6,830
27	9,750	45,700	81,000	57,200	64,000	133,000	86,500	27,100	28,300	16,900	11,900	6,830
28	8,960	35,500	72,400	52,500	60,600	129,000	76,300	30,800	67,400	17,900	11,000	6,510
29	9,750	30,200	64,000	47,700	59,300	125,000	72,900	29,600	71,500	21,800	11,000	6,510
30	10,600	27,100	47,700	45,000	.....	103,000	71,500	25,900	62,000	22,900	11,400	6,510
31	12,800	.....	41,600	45,000	.....	83,100	.....	24,100	.....	21,800	12,400	.....

Daily discharge, in second-feet, of Tennessee River at Chattanooga, Tenn. —Continued.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1885.												
1	6,510	8,580	9,750	20,100	47,700	51,800	36,800	25,900	120,000	31,500	17,400	9,750
2	6,830	8,580	9,750	20,700	43,000	49,100	35,500	25,300	109,000	26,500	16,900	10,200
3	6,830	8,210	8,980	21,800	40,900	47,700	34,100	25,300	81,000	22,400	15,800	11,000
4	6,510	8,210	8,580	21,800	39,600	47,000	34,100	25,300	58,600	20,100	16,300	11,000
5	6,200	7,850	8,210	20,100	37,500	47,000	34,800	25,300	46,400	19,600	17,400	10,200
6	6,200	7,850	8,210	21,800	36,800	45,000	37,500	24,100	38,900	20,700	19,600	9,350
7	6,200	7,850	8,210	31,800	36,800	40,900	34,800	23,500	33,400	28,300	17,900	9,350
8	5,900	7,850	8,580	40,200	38,200	36,800	33,400	22,400	33,400	30,800	16,300	9,780
9	5,900	7,850	11,000	40,900	40,200	34,100	32,100	32,100	30,800	24,100	16,300	9,750
10	5,900	7,160	12,400	38,900	46,400	32,100	30,800	34,800	30,800	21,800	17,900	9,750
11	5,900	6,830	13,300	35,800	53,800	30,200	29,600	33,400	30,800	20,100	16,300	9,350
12	5,610	6,830	12,800	56,600	59,300	28,300	28,300	32,100	28,900	19,600	14,300	8,980
13	5,610	6,830	11,900	103,000	57,900	28,900	27,100	28,300	27,100	16,900	14,300	8,580
14	5,610	6,830	13,300	114,000	55,200	32,100	25,900	25,900	26,900	17,900	19,000	8,580
15	5,330	6,830	20,700	94,600	47,700	41,600	24,700	24,100	24,100	19,000	21,200	8,210
16	5,330	6,830	22,900	108,000	43,600	44,300	23,500	22,400	22,400	20,700	24,700	8,210
17	5,330	6,510	25,300	147,000	40,200	52,500	22,900	21,200	22,400	25,300	23,500	7,850
18	5,330	6,830	23,500	174,000	36,900	56,600	25,300	20,700	23,500	24,700	20,100	7,850
19	5,330	6,830	22,900	161,000	34,800	52,500	37,500	19,600	26,500	20,700	17,900	7,500
20	5,330	7,160	20,100	119,000	34,800	47,000	80,400	19,000	25,900	17,400	15,800	6,830
21	5,330	7,850	19,600	91,900	33,400	42,300	99,400	19,600	25,900	15,800	14,800	11,000
22	5,330	7,850	55,200	64,700	30,800	39,600	67,400	25,300	22,900	16,300	12,800	12,800
23	5,330	7,850	79,700	50,400	28,300	36,200	48,400	25,900	22,400	16,300	12,400	12,800
24	5,610	7,500	79,000	51,100	28,300	34,800	40,200	28,300	22,400	16,300	11,400	12,800
25	5,900	7,500	66,800	71,800	34,800	32,800	34,800	32,100	21,200	15,800	11,000	11,400
26	6,510	8,980	60,400	160,000	45,700	30,800	32,100	36,200	19,600	15,800	10,600	11,400
27	6,830	11,000	41,600	95,300	51,100	29,600	29,600	40,200	19,000	15,800	10,200	10,200
28	7,160	10,600	32,100	85,100	51,800	28,900	28,300	48,400	20,100	17,400	9,350	9,350
29	7,160	11,000	27,100	74,200	.....	29,600	27,100	50,400	24,700	19,000	9,350	8,980
30	7,850	9,750	23,500	62,700	.....	33,400	26,500	64,000	27,700	21,200	8,980	9,750
31	7,850	.....	21,200	53,800	.....	36,800	.....	89,200	.....	19,000	8,980	.....
1886.												
1	15,300	104,000	28,300	28,900	62,000	62,000	314,000	37,500	45,700	41,600	24,700	19,000
2	52,500	89,200	25,900	29,600	57,200	57,900	341,000	38,200	47,000	40,200	23,500	18,500
3	45,700	68,800	36,200	49,100	51,800	55,200	349,000	39,600	50,400	60,600	28,300	18,500
4	35,500	49,800	33,400	116,000	48,400	45,000	336,000	39,600	48,400	72,900	32,100	17,900
5	28,300	40,200	34,800	144,000	45,700	41,600	304,000	43,600	48,400	70,800	34,800	17,900
6	25,900	38,200	33,400	142,000	43,000	40,200	276,000	47,000	50,400	68,800	38,900	17,900
7	20,700	68,800	32,800	132,000	41,600	36,200	264,000	54,500	49,800	79,000	41,600	16,900
8	16,900	164,000	30,800	127,000	36,200	34,800	261,000	55,200	48,400	82,400	42,300	16,300
9	15,300	201,000	34,800	92,600	33,400	33,400	264,000	57,200	55,200	86,600	39,600	15,300
10	13,300	191,000	53,200	77,600	31,500	31,500	225,000	62,000	62,700	87,800	37,500	14,800
11	12,400	169,000	67,400	53,800	49,200	30,800	157,000	65,400	66,100	68,800	34,800	14,300
12	11,900	119,000	49,800	47,700	55,200	28,300	106,000	67,400	82,400	62,000	33,400	14,300
13	13,300	79,000	51,100	41,700	79,700	29,600	88,500	58,600	86,500	57,900	31,500	14,300
14	20,100	60,000	101,000	36,600	83,100	30,800	75,600	53,800	89,200	55,200	30,800	13,800
15	35,500	52,500	135,000	29,600	72,900	33,400	65,400	49,800	75,600	52,500	28,300	13,800
16	35,500	45,700	140,000	43,600	66,100	34,800	60,600	47,000	65,400	49,800	27,100	16,900
17	28,300	40,900	126,000	61,200	57,900	33,400	55,200	37,500	64,000	48,400	27,100	17,400
18	22,900	37,500	116,000	78,300	51,800	31,500	54,500	34,800	66,100	46,400	25,900	16,900
19	20,100	34,800	70,200	79,700	48,400	30,800	51,800	32,800	70,200	44,300	25,300	16,300
20	21,200	34,100	63,400	80,400	43,000	28,300	50,400	45,700	67,400	41,600	24,700	15,800
21	17,400	32,100	55,900	81,000	40,200	51,100	49,100	50,400	66,100	38,200	24,100	14,800
22	24,700	30,800	44,300	81,700	38,200	78,300	47,000	60,600	77,000	35,500	22,900	13,800
23	18,500	30,800	35,500	89,200	36,200	92,600	44,300	65,400	103,000	33,400	22,400	13,300
24	18,500	34,800	37,500	96,000	34,800	91,200	40,900	55,200	89,200	31,500	22,400	13,300
25	15,800	34,800	36,200	91,900	33,400	74,900	39,600	51,100	81,000	30,800	25,300	12,900
26	15,300	33,400	35,500	87,800	40,200	56,600	38,200	53,800	72,900	29,600	29,600	12,400
27	13,800	29,600	34,100	79,000	44,300	51,800	37,500	56,600	59,300	28,300	24,700	11,900
28	13,800	27,100	33,400	78,300	62,000	74,200	37,500	53,800	51,800	27,700	21,200	11,900
29	25,900	27,100	30,800	72,900	.....	110,000	35,500	51,100	48,400	26,500	20,100	11,900
30	61,300	24,700	28,900	64,700	.....	201,000	34,800	49,800	43,000	25,900	19,600	11,900
31	99,400	.....	28,300	64,000	.....	289,000	.....	47,000	.....	25,900	19,600	.....

Daily discharge, in second-feet, of Tennessee River at Chattanooga, Tenn.—Continued.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1887.												
1	11,400	10,000	38,200	68,800	104,000	180,000	29,600	38,900	40,200	20,100	20,100	22,400
2	11,400	10,200	32,100	65,400	89,400	130,000	29,600	36,200	48,400	19,600	19,000	19,000
3	11,000	9,750	28,300	62,000	64,000	110,000	28,900	34,800	55,900	19,000	18,500	16,900
4	11,000	9,750	27,100	55,200	89,900	92,600	28,300	33,400	58,600	19,000	19,600	15,800
5	11,000	9,350	25,300	49,800	123,000	70,200	28,300	32,800	57,900	19,000	51,100	14,800
6	11,000	9,350	25,300	45,000	137,000	56,600	28,300	32,100	57,200	18,500	66,100	13,800
7	11,000	9,350	28,900	41,600	142,000	48,400	28,300	32,100	62,700	20,700	55,900	12,800
8	10,600	9,350	29,600	37,500	97,400	44,300	28,300	32,100	64,700	25,900	49,800	12,800
9	10,200	10,200	29,600	34,800	74,900	103,000	27,700	34,100	60,000	30,800	46,400	12,400
10	10,200	9,750	25,900	33,400	68,100	142,000	27,700	31,500	58,600	32,100	36,800	11,900
11	10,200	9,350	23,500	32,100	60,000	157,000	27,700	30,800	54,500	28,300	32,800	11,900
12	10,200	9,350	22,400	30,200	60,000	126,000	27,100	30,800	51,800	24,700	28,300	11,000
13	10,200	9,350	41,600	28,300	56,600	91,200	27,100	30,200	41,600	21,200	25,300	10,600
14	9,750	9,350	49,800	28,300	52,500	64,000	26,500	30,200	34,100	17,400	23,500	10,600
15	9,350	11,000	55,200	31,500	55,200	60,600	26,500	29,600	31,500	15,800	21,800	10,200
16	9,350	11,900	59,300	36,200	81,000	54,500	25,900	28,900	29,600	14,300	21,200	9,750
17	9,350	13,800	72,900	40,200	85,100	48,400	25,900	28,300	28,300	13,300	20,100	9,750
18	9,350	15,800	62,700	41,600	78,300	45,000	25,300	28,300	27,700	11,900	20,100	9,350
19	8,960	29,600	55,200	38,200	72,200	41,600	24,700	27,100	27,100	11,900	22,900	8,960
20	8,960	38,200	89,200	35,500	66,100	38,900	24,100	26,500	25,900	11,400	22,900	9,350
21	8,960	45,000	103,000	32,800	110,000	36,200	23,500	26,500	25,300	12,400	24,100	9,350
22	8,960	34,800	107,000	30,800	123,000	34,100	23,500	25,900	25,300	12,800	22,400	9,350
23	8,580	41,600	70,200	28,900	115,000	32,100	62,000	25,900	25,300	14,800	21,200	9,350
24	8,580	36,100	52,500	82,400	123,000	37,500	97,400	25,900	26,500	17,900	20,700	9,350
25	8,580	79,700	41,600	127,000	152,000	35,500	116,000	29,600	27,100	19,000	18,500	8,960
26	8,580	82,400	38,900	142,000	166,000	33,400	130,000	33,400	25,900	17,900	18,500	9,350
27	8,960	85,100	40,900	135,000	176,000	32,100	138,000	34,800	25,300	17,900	20,100	9,750
28	10,600	87,200	47,700	112,000	180,000	31,500	103,000	34,800	22,400	19,000	27,100	11,400
29	11,900	68,800	62,000	89,200	.....	30,800	68,800	31,500	21,200	19,000	33,400	12,800
30	11,900	62,000	66,100	87,800	.....	30,200	43,600	28,900	20,700	19,600	30,800	13,300
31	11,000	.....	66,800	98,000	.....	29,600	.....	28,300	.....	20,100	25,900	.....
1888.												
1	17,400	16,900	10,600	48,400	80,800	48,400	154,000	25,900	50,400	42,300	11,900	19,600
2	19,000	15,300	10,200	92,600	30,200	41,600	117,000	25,900	51,100	34,800	14,800	34,900
3	20,700	13,800	10,200	94,000	29,600	37,500	90,600	25,900	56,600	28,300	13,800	47,700
4	19,600	13,300	10,200	72,200	30,800	34,800	70,200	24,100	47,700	24,700	13,800	41,600
5	15,800	12,800	10,200	60,000	36,200	34,100	62,700	23,500	41,600	22,400	14,800	38,900
6	13,800	12,400	10,200	49,100	40,200	32,800	54,500	23,500	34,800	20,700	15,800	38,200
7	11,900	11,900	10,600	40,200	41,600	31,500	49,100	22,900	30,800	21,200	18,500	45,000
8	10,600	11,900	11,000	35,500	43,000	30,200	49,100	22,400	28,300	21,200	16,300	44,300
9	10,200	11,400	12,400	33,400	45,000	28,300	49,100	22,900	25,900	20,700	15,800	59,300
10	9,750	11,400	17,900	44,300	50,400	27,700	66,800	25,300	24,700	20,700	14,800	57,900
11	9,750	11,900	21,800	63,400	87,900	30,800	128,000	27,700	24,700	19,600	14,300	55,900
12	9,350	11,900	20,100	68,100	68,100	31,500	146,000	28,300	23,500	19,000	16,300	55,200
13	9,350	12,800	20,100	70,200	70,200	34,100	119,000	28,900	22,400	21,200	16,900	70,200
14	8,960	13,300	22,900	83,900	64,000	28,900	85,500	27,700	22,400	20,700	15,800	65,400
15	8,580	12,400	21,800	92,600	58,600	32,800	70,200	27,700	22,900	20,700	15,800	60,000
16	8,580	11,900	20,100	83,100	55,200	32,100	58,600	27,100	22,400	19,600	16,300	34,800
17	8,580	11,400	19,600	96,300	51,100	30,200	51,100	25,300	22,400	17,400	15,300	52,500
18	8,960	11,400	22,900	140,000	45,000	28,900	45,700	24,700	21,800	17,400	12,800	70,800
19	8,960	11,400	21,800	169,000	40,200	27,700	43,000	27,100	21,200	16,900	11,900	72,200
20	9,350	11,000	21,800	163,000	37,500	27,100	40,900	28,300	20,700	19,600	11,900	66,800
21	9,750	11,000	21,200	131,000	38,900	29,600	37,500	28,300	20,100	15,800	12,800	55,200
22	10,200	10,200	21,200	93,300	38,900	32,800	34,800	28,900	20,100	16,900	15,300	44,300
23	10,200	9,750	20,100	68,800	37,500	37,500	33,400	28,300	20,700	16,900	27,700	38,900
24	10,600	9,750	19,000	56,600	36,800	38,900	32,100	47,000	20,100	16,900	36,200	45,700
25	11,900	9,350	21,800	47,000	57,900	43,000	30,800	59,300	19,000	13,800	28,300	42,300
26	15,300	9,350	20,100	44,300	70,200	72,900	28,900	59,300	20,100	14,800	23,500	38,200
27	21,800	9,350	20,700	41,600	69,500	148,000	28,300	53,800	15,800	11,900	19,000	31,500
28	26,500	10,200	22,900	38,900	61,300	147,000	27,100	44,300	21,800	11,400	16,900	27,700
29	24,100	10,200	27,700	35,500	53,800	129,000	26,500	45,700	40,200	11,000	17,900	25,300
30	21,800	10,200	31,500	34,100	.....	161,000	25,900	47,000	45,000	11,900	13,800	22,400
31	19,000	.....	30,800	32,100	.....	178,000	.....	49,100	.....	11,900	14,800	.....

Daily discharge, in second-feet, of Tennessee River at Chattanooga, Tenn. —Continued.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1889.												
1	21,200	51,100	31,500	31,500	93,300	46,400	26,800	25,900	45,700	28,300	45,700	22,800
2	19,600	38,200	30,200	33,400	85,800	43,000	28,900	24,700	48,400	29,600	50,400	22,400
3	19,000	44,200	28,900	32,100	81,000	40,900	31,500	25,300	78,300	32,100	60,000	21,200
4	18,500	42,300	27,700	36,200	72,900	40,900	30,800	26,900	70,200	34,800	62,700	21,800
5	17,400	39,600	26,500	36,800	65,400	45,700	28,900	25,300	47,000	40,200	62,700	22,400
6	22,400	37,500	25,200	51,800	60,600	47,000	27,700	27,700	43,600	49,800	57,200	36,200
7	17,900	34,100	24,700	57,900	54,500	43,600	25,900	28,300	32,100	48,400	56,600	40,900
8	15,800	30,800	23,500	64,700	45,700	40,200	22,900	25,900	28,900	41,600	52,800	32,900
9	25,900	33,400	22,400	70,800	45,000	36,800	21,800	23,500	26,500	34,100	44,300	25,800
10	30,200	86,500	24,100	77,000	49,100	33,400	20,100	21,800	25,300	29,600	39,600	22,900
11	32,800	136,000	25,200	78,200	53,800	30,800	18,500	20,700	24,700	25,900	32,800	22,400
12	33,400	137,000	26,500	74,200	53,200	27,700	18,500	20,100	23,500	22,400	28,900	20,700
13	34,800	120,000	27,700	66,100	48,400	25,300	17,900	19,000	28,300	22,400	28,300	20,100
14	23,500	113,000	28,900	55,900	40,200	22,400	21,800	18,500	33,400	21,200	32,100	17,900
15	31,500	116,000	32,100	49,100	36,200	20,700	25,900	17,900	43,000	23,500	32,100	16,900
16	32,800	101,000	28,900	45,000	38,900	18,500	32,100	19,000	62,000	28,900	38,900	15,300
17	30,200	98,700	23,500	47,700	120,000	17,900	37,500	18,500	66,100	30,200	44,300	13,800
18	27,100	96,000	24,100	54,500	195,000	19,600	44,300	19,000	64,700	34,800	38,200	45,700
19	24,700	103,000	25,300	59,300	193,000	34,100	47,700	21,200	66,800	33,400	37,500	48,400
20	23,500	107,000	27,100	66,100	179,000	43,600	49,800	20,100	64,000	29,600	32,100	43,000
21	22,400	67,400	31,500	70,800	191,000	54,500	49,100	19,000	55,200	25,900	27,700	37,500
22	23,500	62,000	38,900	75,600	178,000	58,600	47,000	17,900	59,800	24,700	24,700	27,100
23	27,700	52,500	40,900	77,600	137,000	57,200	43,000	16,900	44,300	22,400	22,900	24,100
24	29,600	47,700	35,500	77,000	103,000	53,200	32,100	15,800	37,500	21,200	21,200	27,100
25	45,700	43,000	32,800	00,600	62,700	48,400	22,900	15,800	32,100	20,100	24,100	44,300
26	66,800	41,600	28,900	51,800	51,800	44,300	22,400	15,300	27,100	19,600	24,100	44,800
27	85,100	38,900	25,900	56,600	50,400	40,900	22,400	18,200	22,400	20,100	25,300	39,600
28	130,000	35,500	23,500	63,400	48,400	38,200	21,800	15,300	22,400	27,100	25,300	40,200
29	120,000	34,100	26,500	72,900	.....	33,400	22,900	15,800	21,800	45,000	23,500	37,500
30	99,400	32,800	28,500	82,400	.....	28,900	24,700	16,900	29,600	55,200	22,900	31,500
31	72,200	.....	25,300	89,200	.....	25,900	.....	19,600	.....	56,600	24,100	.....
1890.												
1	27,100	15,300	46,400	27,700	48,400	267,000	62,000	45,000	35,500	17,900	33,400	45,700
2	25,300	15,300	45,700	29,600	43,600	283,000	60,600	42,300	32,100	16,300	29,600	32,100
3	24,100	15,800	44,300	28,900	43,600	273,000	57,900	39,600	30,200	16,300	28,500	32,500
4	21,800	26,500	38,900	28,300	44,300	228,000	60,000	40,200	30,200	16,900	26,500	22,400
5	20,100	24,100	34,800	28,300	43,000	150,000	77,000	41,600	29,600	16,900	27,100	20,100
6	18,500	30,800	32,100	27,100	47,000	98,700	89,200	45,000	30,200	16,900	25,300	17,900
7	17,400	27,100	30,800	26,500	50,400	90,600	86,500	54,500	29,600	16,900	29,600	20,100
8	15,800	27,100	29,600	25,900	72,200	91,900	85,100	55,900	27,700	16,300	32,800	17,900
9	15,300	38,900	28,300	26,500	125,000	81,000	74,900	53,200	26,500	15,800	38,900	15,800
10	14,800	54,500	27,700	27,700	133,000	70,200	65,400	53,200	25,300	15,300	45,000	15,800
11	14,300	70,800	26,500	26,500	115,000	62,000	59,300	49,100	25,300	15,300	43,000	16,900
12	13,800	62,000	25,900	25,900	94,000	56,600	53,200	46,400	24,700	16,900	36,800	19,000
13	13,800	53,200	24,700	25,900	75,600	52,500	48,400	43,000	22,400	15,300	33,400	20,100
14	13,300	55,900	24,100	27,700	62,000	53,200	45,000	39,600	21,800	14,300	29,600	25,900
15	12,800	58,600	23,500	25,900	60,600	60,000	42,300	38,900	22,400	13,300	27,100	22,400
16	12,800	53,200	22,400	30,800	59,300	87,200	40,900	47,000	22,900	12,400	23,500	22,400
17	13,300	51,800	21,800	43,000	55,200	96,700	42,300	57,200	22,400	11,900	21,200	20,700
18	13,300	64,000	21,200	56,600	57,200	95,300	57,900	52,500	21,800	17,900	20,700	22,400
19	13,300	65,400	20,700	49,800	51,800	82,400	107,000	47,700	20,700	26,500	18,500	30,200
20	12,800	68,100	20,100	45,000	47,000	73,600	133,000	53,800	20,100	26,500	17,400	20,700
21	12,800	70,800	20,100	41,600	43,600	78,300	118,000	66,800	20,700	22,900	14,800	20,700
22	12,400	61,300	19,600	59,300	42,300	89,200	91,200	74,900	21,200	19,600	14,300	33,400
23	12,800	58,600	19,600	82,400	43,000	130,000	70,800	74,900	20,700	17,900	21,200	19,600
24	12,400	64,000	21,200	77,600	44,300	167,000	59,300	72,900	21,200	17,900	22,400	18,500
25	12,800	62,000	22,400	73,600	76,300	179,000	53,200	56,600	22,400	22,900	18,500	19,000
26	13,300	58,600	22,400	62,000	121,000	171,000	51,100	47,000	22,400	34,100	21,200	22,400
27	13,800	48,400	21,200	50,400	173,000	140,000	51,100	44,300	21,800	45,000	20,100	24,100
28	13,800	44,300	20,700	43,600	231,000	98,700	51,800	48,400	21,800	46,400	16,900	22,400
29	13,800	44,300	20,100	38,900	.....	82,400	51,100	49,100	19,600	41,600	21,200	21,200
30	14,800	47,700	21,700	46,400	.....	74,900	49,100	44,300	17,400	36,800	30,800	30,200
31	15,800	.....	27,100	50,400	.....	66,800	.....	40,200	.....	36,200	38,200	.....

Daily discharge, in second-feet, of Tennessee River at Chattanooga, Tenn. —Continued.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1891.												
1	57,900	40,200	13,800	46,400	60,600	120,000	98,700	34,100	33,500	21,800	50,400	30,800
2	49,100	36,900	13,800	47,000	83,800	113,000	105,000	32,800	32,100	21,200	64,000	26,500
3	46,400	32,800	13,300	61,300	103,000	100,000	105,000	32,100	30,200	20,100	96,700	24,100
4	43,000	30,200	13,300	89,980	129,000	84,400	101,000	31,500	27,100	20,100	106,000	23,500
5	37,500	28,300	12,300	99,400	148,000	98,700	96,700	29,600	24,700	20,100	75,600	28,900
6	33,800	25,900	14,300	97,400	141,000	120,000	79,700	28,900	22,900	20,100	53,200	28,900
7	29,800	24,700	15,800	64,700	118,000	154,000	72,900	27,700	21,800	19,000	40,900	29,600
8	29,600	24,100	16,300	49,800	109,000	192,000	67,400	26,500	22,900	17,900	33,500	29,600
9	31,500	22,400	42,300	42,300	92,600	229,000	60,600	25,900	25,900	18,500	28,900	33,500
10	30,200	21,800	49,100	36,800	137,000	249,000	59,300	25,300	26,500	25,300	25,900	27,709
11	27,100	21,200	49,800	33,200	183,000	259,000	60,600	24,700	31,500	28,900	24,700	24,700
12	25,900	20,100	46,400	54,500	227,000	260,000	61,300	24,100	41,600	24,700	22,400	21,800
13	24,700	19,600	44,300	66,800	242,000	222,000	66,100	23,500	38,200	21,800	22,400	20,100
14	23,500	19,000	37,500	62,000	249,000	178,000	70,800	22,900	32,800	19,600	21,800	19,600
15	21,800	18,500	20,700	56,600	235,000	145,000	77,000	23,500	31,500	17,400	21,200	19,600
16	20,700	17,900	23,800	43,600	191,000	129,000	67,400	23,500	32,800	16,300	20,100	19,600
17	20,700	17,900	21,800	47,000	137,000	117,000	57,900	25,300	33,500	15,800	19,600	19,600
18	20,700	18,000	21,800	45,000	126,000	98,000	51,100	28,500	35,500	15,300	19,000	17,900
19	23,500	17,900	22,400	45,000	118,000	85,800	49,800	28,500	40,200	22,900	18,000	16,300
20	22,400	17,400	22,400	45,700	105,000	77,600	47,700	25,900	43,600	28,300	16,900	15,300
21	22,400	17,400	21,800	43,600	99,400	70,800	47,700	25,300	40,200	25,300	19,000	14,800
22	21,200	17,400	21,800	49,800	122,000	67,400	45,700	24,100	40,200	22,400	22,400	14,300
23	30,300	16,300	21,800	79,000	157,000	66,800	44,300	22,900	38,200	21,200	25,900	13,800
24	43,000	15,800	21,800	98,000	182,000	67,400	44,300	22,400	42,300	20,100	31,500	13,300
25	53,800	15,800	24,100	89,200	191,000	66,100	45,000	21,200	44,300	19,600	32,100	12,800
26	58,600	15,300	25,900	86,500	176,000	64,700	45,000	21,800	45,700	19,600	46,400	12,880
27	58,600	14,800	57,900	70,200	134,000	65,400	44,300	22,400	36,200	19,600	49,800	12,400
28	52,500	14,800	79,000	60,000	123,000	89,900	43,000	22,900	27,700	20,100	49,100	11,900
29	45,700	14,300	81,700	47,700	.....	96,500	38,200	22,900	24,100	20,100	41,600	11,500
30	42,300	13,800	78,300	47,700	.....	82,400	36,200	26,500	22,900	21,200	37,500	11,500
31	41,600	.....	57,200	54,500	.....	83,100	.....	30,200	.....	32,800	35,500	.....
1892.												
1	11,000	8,980	20,700	33,900	36,200	32,800	55,900	53,200	32,100	38,900	23,500	12,400
2	11,000	8,980	17,900	28,900	36,200	32,100	50,400	49,800	30,800	32,100	22,900	11,000
3	11,000	8,980	16,300	49,100	34,800	31,500	44,300	45,700	31,500	31,500	23,500	10,600
4	11,000	8,580	15,800	53,800	33,500	30,200	40,200	43,600	33,500	30,800	22,400	9,750
5	11,000	8,580	32,100	53,200	31,500	28,900	38,200	44,300	53,800	38,900	22,900	8,980
6	10,600	8,580	35,500	51,100	30,800	28,300	51,800	41,600	56,600	54,500	27,700	12,800
7	10,600	8,580	38,900	55,200	30,200	27,700	142,000	38,900	57,200	70,200	23,500	12,400
8	10,200	8,580	52,500	60,600	33,500	28,300	209,000	36,800	53,200	74,200	21,200	11,980
9	10,600	8,580	67,400	62,000	49,100	34,800	227,000	36,200	52,500	62,700	19,600	11,900
10	10,600	8,580	68,100	57,200	72,200	42,300	227,000	34,100	50,400	52,500	18,500	11,500
11	11,000	9,750	63,400	49,100	70,800	48,400	206,000	31,500	47,000	55,200	18,500	11,900
12	11,000	10,600	51,800	50,400	65,400	47,700	175,000	32,800	48,400	58,600	17,400	11,000
13	10,600	15,300	40,200	70,200	54,500	45,700	116,000	32,800	49,100	57,900	19,600	12,400
14	10,600	20,100	32,800	150,000	46,400	45,700	81,700	31,500	47,000	54,500	20,100	12,400
15	10,600	22,900	28,900	218,000	43,000	40,200	73,600	30,200	34,800	53,200	20,700	12,400
16	10,200	19,600	28,300	246,000	44,300	36,200	68,100	29,600	30,200	51,800	19,600	17,400
17	10,200	15,800	29,600	252,000	48,400	34,100	62,000	28,900	27,100	51,100	17,400	25,300
18	9,750	14,300	30,280	233,000	47,700	33,200	57,900	27,100	24,700	49,100	16,300	22,900
19	9,750	13,800	27,100	173,000	45,000	45,000	53,800	28,900	24,700	45,000	15,800	19,600
20	9,750	14,300	25,800	121,000	46,400	49,800	77,600	31,500	24,100	43,000	15,800	16,900
21	9,750	13,300	28,800	122,000	47,700	49,800	104,000	35,500	41,600	40,900	16,900	15,800
22	9,750	13,800	22,400	123,000	54,500	47,000	108,000	33,200	47,000	36,200	16,300	16,900
23	9,750	16,900	21,200	112,000	54,500	45,700	99,400	40,900	44,300	32,100	16,300	14,800
24	9,750	25,900	20,700	96,300	53,200	51,100	94,600	42,300	42,300	30,800	16,900	13,300
25	9,750	26,200	22,900	77,000	47,700	59,300	85,800	45,700	40,900	29,600	15,300	13,300
26	9,750	39,600	27,700	65,400	45,000	58,600	87,200	47,000	40,200	28,300	15,800	20,100
27	9,750	36,800	49,100	60,000	39,600	62,000	86,500	39,600	39,600	25,900	17,900	20,100
28	9,750	32,100	63,400	51,800	37,500	66,100	64,700	36,200	43,600	25,300	20,100	17,400
29	9,350	26,500	59,300	46,400	34,100	64,000	55,900	33,500	45,000	24,100	24,700	14,800
30	9,350	22,400	51,100	40,900	.....	66,000	53,800	32,800	43,000	22,900	21,200	13,800
31	9,350	.....	47,000	40,200	.....	57,900	.....	32,100	.....	21,200	18,500	.....

Daily discharge, in second-feet, of Tennessee River at Chattanooga, Tenn. —Continued.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1893.												
1	12,800	8,210	22,900	19,000	64,700	61,100	31,500	63,400	44,300	21,800	14,800	51,100
2	11,900	8,580	22,400	19,000	76,300	55,900	30,200	59,300	48,400	21,200	14,200	40,200
3	11,800	8,580	21,200	26,500	66,100	54,500	28,900	68,800	62,000	23,500	17,400	28,300
4	11,000	10,200	20,700	32,800	52,500	54,500	28,900	119,000	49,100	29,600	19,600	26,200
5	10,600	11,900	20,100	32,100	48,400	53,200	28,900	161,000	38,900	27,100	18,500	34,800
6	10,200	13,300	20,100	30,200	46,400	55,200	29,600	186,000	50,400	21,800	17,900	27,700
7	10,200	13,800	18,500	29,600	41,600	55,900	30,800	198,000	103,000	21,200	27,700	24,100
8	9,750	13,800	17,900	26,500	38,200	53,800	30,800	186,000	135,000	19,600	28,300	19,600
9	9,750	16,300	17,900	22,400	35,500	53,800	28,900	116,000	124,000	19,000	22,900	17,900
10	9,750	24,700	16,900	21,200	36,200	57,900	28,900	81,000	97,400	20,100	21,200	15,800
11	9,750	34,100	16,300	19,000	51,800	69,800	28,900	73,600	74,200	19,000	18,500	15,800
12	9,750	38,900	15,300	16,300	94,000	73,600	28,300	64,700	54,500	19,000	16,900	20,700
13	9,350	41,600	14,800	16,300	142,000	72,200	27,100	57,900	43,600	18,500	15,300	33,800
14	9,350	24,700	14,800	16,300	154,000	75,600	63,400	53,800	40,200	17,900	14,300	68,100
15	9,350	23,500	18,500	16,300	148,000	66,100	76,300	49,100	38,200	16,900	15,800	80,400
16	9,350	27,100	19,000	16,300	139,000	58,600	64,700	47,000	36,200	15,800	16,300	59,300
17	9,350	32,100	30,200	16,300	154,000	51,100	52,500	57,900	32,100	15,300	21,200	48,400
18	8,960	36,200	49,100	16,300	194,000	45,700	44,300	64,700	30,800	15,800	29,600	41,600
19	8,960	37,500	53,200	16,300	214,000	41,600	38,200	54,500	30,200	16,900	27,700	35,500
20	8,580	36,200	51,100	16,300	221,000	39,600	37,500	46,400	29,600	17,900	22,400	28,900
21	8,580	31,500	55,900	16,300	217,000	36,800	43,000	44,300	30,800	19,600	16,300	23,500
22	8,580	27,100	57,200	16,300	188,000	34,800	43,000	39,600	32,100	20,100	14,800	20,100
23	8,580	24,700	54,500	16,300	118,000	33,500	42,300	35,500	32,800	25,900	13,800	19,000
24	8,580	23,500	47,000	17,400	77,600	32,800	40,200	32,800	30,800	29,600	13,300	17,900
25	8,580	21,800	39,600	17,400	64,700	37,500	39,600	30,800	34,100	31,500	12,800	16,900
26	8,210	19,000	33,500	19,000	57,200	40,200	34,800	29,600	32,100	20,700	11,500	16,300
27	8,210	17,400	29,600	20,700	51,100	40,200	32,800	28,300	29,600	19,000	11,000	15,300
28	8,210	16,900	27,100	21,200	49,800	36,800	41,600	25,900	28,900	16,300	10,200	14,300
29	8,210	16,900	24,100	24,700	.....	34,100	58,600	30,800	26,500	15,300	10,200	13,800
30	8,210	20,100	21,800	30,200	.....	33,500	64,700	38,200	22,900	14,800	10,600	14,300
31	8,210	.....	18,500	42,300	.....	32,800	.....	44,300	.....	14,800	10,200	.....
1894.												
1	14,800	17,300	14,300	16,300	28,900	46,400	28,300	21,800	21,200	24,700	16,300	22,400
2	14,300	16,900	21,800	19,000	28,300	49,800	27,100	21,200	20,100	22,400	16,300	21,200
3	13,800	15,800	20,700	21,200	27,700	57,900	30,800	20,700	19,600	20,700	16,300	16,900
4	13,800	15,300	22,900	21,800	31,500	60,000	30,200	20,700	19,000	24,700	15,800	14,800
5	14,800	14,800	24,100	19,600	143,000	58,600	40,200	20,100	18,500	23,500	16,300	12,400
6	14,300	14,300	26,500	17,400	167,000	57,200	40,900	19,600	17,900	20,700	16,900	11,900
7	16,300	13,800	26,500	27,700	157,000	51,800	43,000	19,000	16,300	17,900	16,300	11,000
8	17,400	13,800	25,300	35,500	128,000	49,800	44,300	18,500	15,800	18,500	16,300	10,600
9	16,300	13,300	22,900	58,600	103,000	47,700	38,900	19,000	14,800	17,400	16,900	9,780
10	16,300	13,800	22,400	55,200	103,000	43,000	32,800	18,500	14,300	18,500	14,800	9,350
11	14,800	14,300	20,700	51,800	108,000	40,900	34,100	17,900	14,300	20,700	13,300	9,350
12	14,300	27,100	17,900	47,700	98,700	38,900	43,000	26,500	13,800	18,500	12,400	9,350
13	13,800	21,200	17,400	50,400	97,400	39,600	51,800	28,900	13,300	15,300	11,500	8,960
14	14,300	20,100	16,900	48,400	89,900	43,000	47,000	27,100	13,300	13,800	11,000	8,580
15	14,900	19,600	16,300	47,000	77,000	41,600	43,000	24,100	12,800	12,400	11,900	9,750
16	10,600	16,900	16,900	47,000	64,000	40,900	39,600	22,400	12,400	11,500	20,100	11,000
17	59,300	15,800	17,900	42,300	58,600	40,200	36,800	22,900	11,900	11,000	25,900	11,000
18	37,500	15,300	19,600	43,000	52,500	43,600	31,500	29,600	12,400	15,800	19,600	11,900
19	32,800	14,300	21,200	36,800	51,100	44,300	28,300	28,300	13,800	13,800	16,900	11,900
20	29,600	14,800	21,800	34,800	50,400	46,400	28,900	30,800	14,300	13,800	17,400	10,200
21	22,900	14,800	21,800	30,200	51,800	42,300	27,700	32,100	14,800	18,500	20,100	9,750
22	19,000	14,800	19,600	28,300	53,200	53,800	27,100	36,200	14,300	20,700	20,700	9,750
23	17,400	14,300	18,500	28,300	53,800	53,200	26,500	40,200	13,300	21,200	22,400	11,000
24	15,800	14,300	17,400	29,600	49,800	49,100	25,900	40,900	12,800	19,000	20,100	11,000
25	17,400	13,800	16,300	30,200	47,700	46,400	25,300	42,300	12,800	22,400	16,900	10,200
26	18,500	14,300	15,800	29,600	41,600	43,600	24,100	39,600	14,300	22,900	14,800	8,960
27	27,700	14,800	15,300	30,800	46,400	41,600	23,500	34,800	14,800	21,800	12,800	8,210
28	25,900	15,800	14,800	30,800	46,400	38,200	22,900	32,100	15,300	21,200	15,300	7,850
29	22,400	15,300	14,300	28,900	.....	34,100	22,400	28,900	16,300	20,100	13,800	7,500
30	19,600	14,300	15,300	28,300	.....	32,800	22,400	26,500	24,100	18,500	15,300	7,160
31	17,900	.....	17,400	27,700	.....	29,600	.....	23,500	.....	18,500	24,100	.....

Daily discharge, in second-feet, of Tennessee River at Chattanooga, Tenn.—Continued.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1895.												
1	7,500	9,280	7,850	26,800	45,700	40,280	47,000	34,800	32,100	17,900	24,700	18,500
2	7,500	10,600	7,850	21,800	43,000	43,600	44,300	33,500	29,600	19,000	22,900	19,000
3	7,850	12,300	7,500	18,500	43,600	76,300	40,200	31,500	27,100	21,200	21,200	17,900
4	9,750	10,200	7,500	17,900	45,000	118,000	38,200	30,800	25,300	22,400	19,600	17,400
5	11,000	9,360	7,500	17,400	45,700	129,000	36,800	32,800	23,500	25,300	19,000	16,300
6	11,000	9,760	7,500	17,400	44,300	118,000	36,200	34,800	24,700	28,300	16,900	15,800
7	9,750	9,750	7,500	18,500	40,900	88,100	34,800	38,200	26,900	28,300	17,900	15,800
8	8,960	8,960	7,500	22,400	38,200	65,400	59,300	41,600	29,600	28,900	18,500	13,800
9	8,210	8,580	8,210	68,100	37,800	56,600	66,800	49,800	28,900	31,500	18,500	14,300
10	7,850	8,210	8,580	133,000	28,300	52,500	71,500	52,500	25,900	32,800	16,900	13,800
11	7,160	7,850	10,200	188,000	22,400	49,100	82,400	55,200	23,500	28,900	16,900	13,300
12	7,500	7,850	21,200	212,000	18,500	48,000	79,000	53,800	21,200	24,700	16,300	13,800
13	8,580	7,500	82,500	206,000	23,500	47,000	64,700	54,500	20,100	21,200	17,900	14,300
14	11,500	7,160	99,500	186,000	23,800	48,400	53,800	53,800	19,600	19,000	16,300	14,300
15	13,800	7,160	70,200	127,000	24,100	53,200	47,700	55,200	19,000	17,900	15,800	13,300
16	12,400	7,160	67,400	77,600	26,500	57,900	44,200	49,800	19,000	17,900	15,300	12,800
17	10,600	7,160	62,500	68,100	26,500	56,600	41,600	46,400	21,200	20,700	17,400	12,400
18	9,250	6,830	58,900	62,000	28,500	59,300	55,200	42,300	20,700	20,100	24,100	13,300
19	8,210	7,160	56,500	60,000	26,500	57,900	74,200	41,600	19,600	18,500	27,700	12,800
20	7,850	7,500	53,800	56,900	25,900	54,500	74,200	43,000	17,900	16,900	32,800	11,900
21	7,500	7,500	20,100	59,200	28,900	91,200	61,300	42,300	17,400	15,300	30,200	12,400
22	7,160	7,500	17,900	63,400	32,100	134,000	52,500	39,600	17,900	15,300	35,500	11,500
23	7,160	7,850	15,800	61,300	35,500	148,000	46,400	36,200	17,400	14,300	30,200	10,200
24	7,160	7,850	15,300	55,900	39,600	144,000	42,300	33,500	16,900	13,800	27,100	9,350
25	7,160	8,210	14,300	67,400	40,200	118,000	39,600	32,100	16,300	13,800	25,900	8,960
26	7,160	8,580	13,800	67,400	38,200	82,400	36,800	32,100	16,300	16,300	26,500	8,960
27	6,830	8,580	23,500	62,000	36,800	70,800	34,800	41,600	14,800	21,200	23,500	8,580
28	6,830	8,580	40,900	57,200	36,800	66,100	34,800	45,000	14,380	63,400	20,700	8,210
29	6,830	8,210	51,100	53,800	.....	58,600	34,100	44,300	14,300	64,700	19,600	7,850
30	7,850	8,210	47,700	52,500	.....	54,500	34,100	39,600	14,800	44,300	20,700	7,500
31	8,210	.....	33,800	51,100	.....	51,100	.....	34,800	.....	30,200	19,000	.....
1896.												
1	7,500	8,210	9,360	27,700	24,700	22,900	94,600	19,000	14,800	18,500	31,500	13,800
2	7,160	8,580	9,760	28,300	36,200	21,800	182,000	19,000	16,900	17,900	29,600	12,400
3	7,160	8,960	9,360	27,700	62,000	21,200	228,000	19,000	24,700	17,400	27,100	11,800
4	7,160	10,200	9,360	27,700	72,900	20,700	258,000	19,600	32,800	17,900	25,900	11,000
5	7,160	10,200	9,360	26,500	65,400	20,100	269,000	22,400	29,500	17,900	25,300	10,200
6	7,160	8,960	10,200	24,100	57,200	19,600	245,000	25,900	26,500	17,900	27,700	10,200
7	7,160	8,960	9,750	20,100	74,200	19,000	152,000	25,900	22,900	20,100	28,300	9,750
8	7,500	8,580	9,360	18,500	89,200	19,600	72,900	24,100	19,600	28,300	23,500	11,900
9	7,160	8,210	8,960	17,900	87,800	19,600	55,200	22,400	19,600	47,700	21,200	15,800
10	7,500	8,580	8,960	17,900	83,800	19,000	48,400	20,700	25,300	90,600	19,000	15,300
11	7,850	8,960	9,360	17,400	81,000	20,100	43,000	19,000	41,600	137,000	18,500	13,800
12	7,850	10,600	9,750	17,400	71,500	20,100	39,600	17,400	36,800	141,000	19,000	11,900
13	7,850	12,400	11,000	15,300	62,700	21,200	36,200	16,300	28,900	100,000	17,900	11,000
14	7,850	13,800	11,500	15,300	69,500	21,200	33,500	15,800	24,100	72,200	17,900	10,200
15	7,500	12,800	11,900	14,800	81,000	20,700	31,500	15,300	20,100	70,200	17,400	10,200
16	7,850	11,900	11,500	13,800	86,500	21,200	29,600	14,800	17,900	71,500	16,900	9,750
17	7,850	11,500	11,000	13,300	79,000	31,800	28,300	14,300	16,900	68,800	16,900	8,960
18	7,850	11,000	10,600	13,300	68,800	62,700	27,100	13,800	15,800	88,500	16,300	9,350
19	7,500	10,600	10,200	13,300	55,200	83,100	25,900	13,800	16,300	79,000	15,300	9,350
20	7,500	9,750	9,750	13,300	45,700	101,000	24,700	12,800	17,400	59,300	14,800	8,960
21	7,160	8,960	10,200	13,300	39,600	87,800	23,500	12,400	20,700	45,700	13,800	8,580
22	7,160	8,210	12,400	14,300	34,800	70,200	22,900	12,400	19,600	38,200	13,800	8,580
23	6,830	8,960	18,500	17,400	30,800	58,600	22,900	14,300	19,600	51,800	12,800	8,960
24	6,830	9,350	23,500	28,300	27,700	51,100	22,400	17,900	18,500	51,800	12,800	9,350
25	6,830	8,960	25,900	38,200	26,500	47,700	22,400	20,100	17,400	52,500	15,800	10,200
26	6,830	8,960	24,100	49,800	25,900	45,000	21,200	21,200	16,200	47,000	14,800	11,900
27	6,830	8,960	23,500	48,400	25,300	43,000	20,700	17,900	14,800	69,500	15,300	10,600
28	6,830	8,960	25,300	41,600	24,700	39,600	21,200	17,400	14,800	77,000	17,900	9,750
29	6,830	8,960	29,600	34,800	23,500	36,200	21,200	15,800	15,800	57,200	22,400	9,750
30	6,830	9,750	26,500	30,200	.....	33,500	20,100	15,300	16,900	43,000	20,100	15,300
31	7,850	.....	26,500	27,100	.....	46,400	.....	14,300	.....	36,200	15,800	.....

Daily discharge, in second-feet, of Tennessee River at Chattanooga, Tenn. —Continued.

Day.	Oct.	Nov.	Dec	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1897.												
1	14,300	8,580	70,200	13,800	16,900	79,000	53,200	34,100	24,100	27,700	24,700	12,400
2	13,300	8,580	86,500	14,300	41,600	59,300	77,000	36,800	23,800	24,700	21,200	12,800
3	14,800	8,960	88,500	14,300	62,700	52,500	96,000	44,300	23,800	21,200	21,200	11,000
4	16,900	9,780	69,500	14,800	66,400	55,200	103,000	59,300	22,900	19,000	20,100	11,700
5	15,300	9,180	49,800	14,800	57,900	58,600	171,000	59,300	22,900	20,100	18,600	11,000
6	14,800	10,200	38,200	15,300	50,400	76,300	201,000	51,800	23,900	22,400	19,000	10,600
7	12,400	13,300	32,100	16,300	53,800	125,000	196,000	46,400	22,400	21,200	21,500	10,600
8	10,600	19,600	27,700	16,800	66,800	165,000	167,000	43,000	24,700	22,400	23,500	10,200
9	9,750	23,800	25,900	15,800	89,900	159,000	130,000	38,900	24,100	24,100	27,100	10,200
10	9,350	22,900	24,700	15,800	99,000	130,000	103,000	36,200	22,900	22,400	31,500	9,350
11	8,580	18,500	26,300	15,300	83,800	146,000	89,900	34,800	32,100	23,800	28,900	8,580
12	8,580	17,900	26,500	14,800	67,400	187,000	79,700	36,200	33,400	26,500	24,700	8,580
13	8,580	33,800	24,700	13,800	61,300	231,000	71,500	47,000	27,700	25,300	22,400	8,580
14	8,580	43,600	25,300	14,800	62,000	252,000	64,000	119,000	23,800	22,900	19,000	7,880
15	9,750	38,200	24,700	22,900	65,400	252,000	60,000	146,000	21,200	21,200	16,900	7,880
16	10,600	31,800	22,900	38,200	66,800	246,000	60,600	132,000	20,100	20,700	15,800	7,880
17	10,200	27,700	21,800	33,900	60,600	239,000	63,400	105,000	20,100	27,100	15,800	7,880
18	10,200	24,100	21,200	26,800	52,500	224,000	60,600	74,900	20,100	38,200	17,900	7,500
19	10,600	21,200	23,500	37,500	45,700	196,000	57,200	55,900	18,500	33,400	18,500	7,160
20	10,200	19,000	27,100	40,200	41,600	185,000	53,800	46,400	19,000	34,100	16,900	7,160
21	10,200	16,900	25,900	41,600	41,600	214,000	49,100	40,900	25,300	38,900	16,900	7,500
22	9,350	15,800	24,100	43,000	50,400	220,000	45,000	37,500	27,700	34,800	19,000	7,160
23	8,580	14,300	22,400	43,600	83,800	204,000	41,600	34,100	28,300	33,400	19,000	7,160
24	8,580	13,800	21,200	41,600	165,000	164,000	39,600	32,100	30,200	37,500	21,200	7,500
25	8,580	13,300	20,100	38,900	209,000	117,000	37,500	32,100	32,800	52,500	17,900	7,160
26	8,580	12,800	18,500	34,100	231,000	91,000	36,200	28,300	35,500	70,200	15,800	7,160
27	8,580	12,400	17,400	30,200	224,000	77,000	34,800	27,100	29,600	77,000	15,800	6,530
28	8,580	12,900	16,300	27,100	154,000	67,400	35,500	25,900	34,800	49,800	15,800	6,530
29	8,210	30,200	15,300	24,700	.....	60,600	36,200	24,700	34,800	37,500	13,800	6,338
30	8,210	57,900	14,800	20,700	.....	55,900	33,800	23,500	35,500	31,500	12,800	7,160
31	8,960	.....	14,300	16,900	.....	52,500	.....	24,100	.....	27,100	12,400	.....
1898.												
1	7,160	7,160	7,850	19,000	45,700	18,500	112,000	37,500	19,000	13,800	49,800	20,100
2	7,160	7,500	8,960	17,900	39,600	17,900	115,000	33,400	18,500	13,800	45,700	22,400
3	6,830	8,210	9,350	16,900	36,200	16,900	96,000	30,800	18,500	12,800	37,500	56,600
4	5,510	8,580	12,800	16,300	30,800	16,900	71,500	28,300	18,500	11,900	30,800	120,000
5	6,200	8,580	19,600	15,800	28,300	18,500	64,700	26,500	15,800	13,800	36,200	164,000
6	6,200	8,580	21,200	14,800	25,900	19,000	77,000	24,700	14,800	12,400	74,200	145,000
7	5,900	8,960	21,800	15,300	24,700	19,800	72,900	24,700	13,800	12,400	93,300	101,000
8	5,900	8,960	19,000	15,800	24,700	19,000	64,000	22,900	12,900	12,900	79,700	70,200
9	5,900	8,580	15,800	16,900	24,100	17,900	57,200	23,500	11,900	14,300	63,400	58,600
10	5,900	8,580	13,800	17,900	23,500	16,900	50,400	23,500	11,900	16,900	51,800	52,900
11	6,200	8,210	13,800	17,900	22,400	16,300	52,500	24,700	11,000	19,600	55,200	44,300
12	6,510	7,850	11,900	31,500	21,800	15,800	58,600	25,900	11,900	19,000	77,600	37,500
13	7,850	7,850	41,000	83,800	21,200	15,800	57,900	24,700	11,000	17,900	94,600	32,800
14	9,350	7,500	11,000	91,900	21,200	15,800	55,200	23,500	11,000	15,800	101,000	29,600
15	8,580	7,160	14,800	77,000	21,200	17,900	55,200	22,400	10,200	15,800	96,000	27,100
16	8,580	7,160	15,300	77,000	20,700	28,900	56,600	21,800	11,000	19,600	72,900	24,700
17	8,580	7,160	13,800	78,300	20,100	28,300	52,500	21,200	11,900	25,900	54,500	23,300
18	8,580	7,160	14,800	62,000	19,500	29,600	49,800	20,700	13,800	30,800	42,300	22,400
19	8,580	7,160	15,300	56,600	18,500	31,500	48,400	20,700	19,800	25,900	37,500	21,200
20	10,200	7,160	20,100	73,600	18,500	35,500	48,400	20,100	22,400	23,500	34,800	20,100
21	11,900	6,830	27,700	87,800	17,900	32,800	44,300	20,100	30,800	22,400	22,400	19,000
22	11,000	6,830	48,400	85,100	17,900	30,800	41,600	20,100	32,100	18,500	32,100	20,100
23	9,750	6,830	63,400	79,700	19,000	29,600	38,900	19,600	28,300	18,500	30,800	28,300
24	9,350	6,830	53,800	78,300	19,600	25,900	40,200	19,000	25,900	19,000	27,100	28,300
25	10,200	6,830	45,700	78,300	20,100	24,100	39,900	19,000	20,700	20,100	24,100	37,500
26	9,350	6,830	36,800	103,000	21,200	23,500	38,900	20,700	19,000	20,100	22,400	43,000
27	8,580	6,830	31,500	118,000	19,000	24,700	37,500	28,300	16,300	25,900	22,400	36,200
28	7,850	6,830	27,700	108,000	19,000	24,700	42,300	32,100	15,800	32,100	22,900	28,300
29	7,850	6,830	24,700	90,600	.....	25,900	41,600	27,700	15,800	30,800	24,100	24,100
30	7,160	6,830	22,400	70,600	.....	32,100	40,200	23,500	14,800	34,100	22,900	21,200
31	7,160	.....	21,200	55,200	.....	33,800	.....	20,700	.....	47,700	21,200	.....

Daily discharge, in second-feet, of Tennessee River at Chattanooga, Tenn. —Continued.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1899.												
1	20,100	25,900	28,900	27,100	32,800	125,000	149,000	45,700	28,500	19,000	23,500	12,800
2	18,500	24,100	28,300	28,300	32,100	114,000	127,000	42,300	23,500	18,500	20,100	13,800
3	17,900	23,500	27,700	30,200	32,100	97,400	96,300	39,600	24,700	16,900	16,900	15,800
4	21,800	22,400	28,300	33,400	66,800	90,600	82,400	38,800	27,100	15,800	15,800	16,900
5	54,500	21,800	28,300	34,800	151,000	116,000	83,800	36,200	26,900	14,800	13,800	14,800
6	109,000	21,800	32,100	43,000	201,000	161,000	94,000	42,300	23,500	14,800	13,800	12,800
7	106,000	23,500	34,800	125,000	227,000	175,000	101,000	51,800	22,400	14,800	13,800	11,900
8	67,400	24,700	34,100	119,000	246,000	182,000	116,000	57,900	21,200	16,900	13,800	11,000
9	53,800	25,300	33,400	112,000	254,000	182,000	115,000	62,000	20,100	16,300	12,800	10,200
10	51,100	24,700	32,100	111,000	244,000	104,000	101,000	66,800	19,000	14,800	12,400	11,000
11	45,700	25,900	28,900	87,900	200,000	74,200	90,600	70,200	21,800	14,800	12,400	10,600
12	38,900	28,300	27,100	65,400	126,000	66,100	81,700	64,700	24,100	13,800	11,900	11,900
13	34,900	30,200	25,900	56,600	77,000	59,300	72,900	59,300	29,600	13,300	11,900	11,000
14	32,900	28,300	24,100	49,100	58,600	70,200	66,800	57,200	33,400	12,800	12,800	11,900
15	30,800	25,900	22,400	45,700	51,800	161,000	62,000	59,300	37,500	12,800	14,800	11,000
16	27,700	24,700	21,200	43,600	45,700	227,000	57,900	56,600	35,500	11,900	14,800	10,200
17	26,500	25,900	20,700	44,300	48,400	245,000	53,800	53,200	37,500	11,400	13,800	9,350
18	29,600	27,100	20,100	44,300	59,300	240,000	51,100	47,000	36,200	11,000	13,300	9,350
19	39,600	28,300	21,200	43,000	70,800	237,000	48,400	40,900	29,600	11,400	12,800	8,580
20	47,000	30,200	29,600	41,600	79,700	246,000	45,700	37,500	26,500	11,900	11,400	7,850
21	57,200	33,400	33,400	40,200	72,200	261,600	44,300	34,100	23,500	11,900	10,600	7,850
22	53,800	34,800	34,800	37,500	66,100	266,000	41,600	32,100	21,200	13,800	10,200	7,850
23	45,700	38,900	33,400	34,800	62,700	257,000	47,000	30,800	19,600	15,300	9,350	8,960
24	43,000	40,200	30,800	32,100	60,600	216,000	59,300	30,200	17,900	19,600	8,960	9,750
25	43,000	38,900	29,600	34,800	58,600	152,000	57,900	28,300	17,900	19,000	8,580	9,750
26	45,700	35,800	30,800	37,500	56,600	105,000	67,400	27,100	16,900	16,900	8,580	9,350
27	40,900	32,100	34,100	33,400	53,800	86,500	64,000	25,900	17,900	16,900	8,580	8,960
28	36,200	29,600	32,800	33,400	119,000	89,200	56,600	24,700	20,100	20,100	8,580	8,580
29	32,100	27,100	29,600	32,100	...	112,000	51,100	24,100	19,600	23,500	9,720	8,580
30	29,600	28,300	27,100	30,200	...	133,000	47,000	23,500	18,500	23,500	11,000	8,960
31	27,100	...	25,300	30,200		149,000		23,500	....	29,600	11,000	.....
1900.												
1	8,580	8,210	10,600	16,900	17,900	48,400	47,000	36,200	15,800	53,800	36,200	12,400
2	8,210	8,210	10,600	16,000	16,900	53,200	43,000	32,100	15,800	49,800	30,800	11,900
3	7,850	7,850	10,600	15,100	14,800	68,100	40,200	30,800	16,900	41,600	26,500	13,300
4	7,850	8,210	10,600	14,200	14,300	79,000	43,000	29,600	17,900	36,800	23,500	14,300
5	7,500	9,750	11,000	13,300	16,300	81,000	48,400	28,300	17,900	33,400	20,100	13,300
6	7,160	9,750	10,600	12,400	19,600	66,100	52,500	27,100	19,600	30,800	17,900	11,900
7	7,160	9,750	10,200	12,800	22,400	62,000	47,000	25,900	32,100	28,300	16,300	10,600
8	7,850	9,350	9,750	13,300	21,800	72,900	41,600	24,700	38,900	25,300	14,800	10,200
9	8,580	9,350	9,350	13,800	20,800	93,300	38,200	24,700	36,200	23,500	13,800	9,350
10	10,200	8,580	9,350	13,800	51,100	106,000	35,500	24,700	30,200	23,500	13,300	8,960
11	11,000	8,580	10,200	19,000	87,900	104,000	38,200	24,100	28,300	24,100	12,400	8,580
12	11,000	8,210	29,600	34,800	55,200	99,600	45,000	24,100	27,700	21,200	11,900	8,210
13	10,600	7,850	37,500	49,800	88,500	72,900	44,300	23,500	25,300	19,000	11,400	7,850
14	10,200	7,850	44,300	53,200	141,000	60,600	41,600	22,400	29,600	18,500	11,400	8,210
15	9,350	7,850	43,000	51,100	157,000	52,500	38,200	21,200	30,200	18,500	12,400	11,000
16	8,580	7,850	36,200	47,000	140,000	48,400	36,800	21,200	29,600	18,500	12,800	17,400
17	8,580	7,850	29,600	37,500	110,000	47,000	53,800	20,100	30,800	17,900	13,300	22,400
18	8,580	7,850	23,500	31,500	75,600	45,700	66,100	19,600	36,200	17,400	13,300	22,900
19	8,210	7,850	21,200	33,400	56,600	45,700	60,600	19,000	53,800	16,900	13,300	25,900
20	8,210	7,850	23,500	51,800	46,400	52,500	57,900	19,000	56,600	16,300	12,800	26,500
21	8,210	7,160	24,700	57,900	42,300	72,900	73,600	17,900	54,500	15,300	11,400	21,800
22	8,210	7,160	24,700	53,800	46,400	96,000	75,600	17,900	45,700	14,300	11,000	16,900
23	7,850	7,850	23,500	48,400	51,800	112,000	71,500	16,900	37,500	14,300	10,600	14,800
24	7,850	8,580	32,100	43,000	52,500	108,000	66,800	16,900	36,200	15,800	11,000	13,800
25	7,850	8,960	36,200	36,200	52,500	79,700	60,600	17,900	43,000	16,900	11,400	15,300
26	7,160	10,600	36,800	31,500	58,600	70,200	51,800	17,900	45,700	17,400	14,300	15,300
27	7,160	11,000	33,400	28,300	57,200	68,100	47,000	19,000	48,400	18,500	17,400	14,800
28	7,160	11,000	32,100	25,900	51,100	66,800	44,300	20,100	49,800	25,900	15,300	13,800
29	7,500	11,000	28,900	23,500	.....	63,400	41,600	20,100	52,500	48,400	14,300	13,300
30	7,850	11,000	25,900	21,800	.....	57,900	38,900	19,000	53,200	49,800	13,300	12,800
31	7,850	.....	21,200	20,100	.....	51,800	.....	16,900	.....	43,600	12,800	.....

Daily discharge, in second-feet, of Tennessee River at Chattanooga, Tenn. —Continued.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May.	June.	July.	Aug.	Sept.
1901.												
1	11,900	18,200	33,200	29,600	38,200	20,700	78,200	67,400	75,600	34,800	15,800	61,300
2	11,000	14,800	28,200	32,800	39,600	20,700	83,800	57,200	69,800	34,100	15,800	60,600
3	10,600	14,300	32,100	33,400	43,000	20,700	128,000	51,800	60,600	36,800	16,300	60,000
4	9,750	16,300	28,900	32,100	53,200	20,700	158,000	45,700	51,800	37,500	15,800	64,000
5	9,350	18,500	32,100	28,900	62,700	21,200	157,000	41,600	46,400	34,800	14,800	57,900
6	8,960	20,700	40,900	26,500	62,000	22,400	146,000	39,600	40,900	29,600	14,800	47,700
7	8,960	22,500	50,400	24,700	57,900	22,900	123,000	37,500	40,900	28,900	17,900	40,900
8	10,200	23,500	56,600	22,900	54,500	22,900	90,600	36,200	40,900	30,800	55,900	37,500
9	11,000	20,700	51,800	21,800	51,800	22,400	74,200	34,100	38,200	32,100	77,000	34,100
10	12,400	17,900	41,600	21,200	46,400	41,600	64,000	32,100	40,900	36,800	61,300	31,500
11	12,400	16,900	35,500	35,500	45,700	60,600	56,600	32,100	49,800	38,900	43,600	30,200
12	14,300	15,300	30,800	98,700	41,600	70,200	51,100	30,800	44,300	32,100	33,400	28,900
13	16,900	14,300	27,700	175,000	42,300	60,000	47,700	32,100	37,500	28,300	30,200	32,800
14	14,300	13,300	25,300	185,000	43,000	49,800	40,200	31,500	35,500	24,700	33,200	34,100
15	11,400	12,800	24,100	166,000	41,600	43,600	60,600	31,500	37,500	22,900	89,200	34,800
16	11,000	12,400	23,500	127,000	37,500	37,500	64,000	39,800	45,000	20,100	180,000	35,500
17	10,200	11,900	22,400	80,400	33,400	33,400	63,400	29,600	54,500	20,700	217,000	36,800
18	9,750	11,900	20,100	60,000	30,200	30,800	59,300	27,700	60,600	21,800	216,000	53,800
19	9,350	11,400	19,000	49,100	28,900	28,300	67,400	30,200	57,200	20,700	188,000	61,300
20	8,960	11,400	18,500	43,000	28,300	26,500	137,000	48,400	54,500	20,700	153,000	57,200
21	8,580	12,400	18,500	37,500	27,700	26,500	174,000	63,400	51,100	23,500	120,000	50,400
22	8,580	12,800	22,400	34,100	26,500	27,100	162,000	131,000	46,400	21,800	110,000	44,300
23	9,350	13,300	23,500	30,800	25,300	29,600	150,000	174,000	62,700	20,700	106,000	37,500
24	12,800	15,800	26,500	32,100	24,700	28,300	145,000	196,000	58,600	19,600	120,000	32,100
25	22,900	17,900	29,600	33,400	23,500	28,300	123,000	214,000	45,700	17,400	106,000	29,600
26	41,600	47,000	30,800	33,400	22,900	46,400	110,000	215,000	59,300	16,900	83,100	27,700
27	45,000	88,500	29,600	30,800	21,200	102,000	95,300	154,000	60,600	16,300	68,800	26,900
28	34,800	100,000	25,900	29,600	20,700	146,000	95,300	85,800	51,100	16,300	64,000	24,700
29	27,700	100,000	24,100	29,600	.....	142,000	92,600	76,300	43,000	15,800	66,800	24,700
30	20,700	83,800	23,500	29,600	.....	119,000	87,800	74,900	37,500	15,800	62,000	24,100
31	19,000	.....	25,300	31,500	.....	94,000	.....	77,600	.....	15,800	60,600	.....
1902.												
1	23,500	14,800	13,300	267,000	131,000	187,000	204,000	32,100	22,400	60,600	12,800	9,280
2	25,300	14,800	12,800	271,000	142,000	211,000	178,000	51,800	21,200	63,400	11,900	8,880
3	25,900	14,300	13,300	250,000	152,000	237,000	116,000	57,200	20,100	53,800	12,400	8,580
4	25,300	14,300	14,300	176,000	141,000	252,100	77,600	48,400	19,600	45,080	13,800	9,750
5	24,700	14,300	14,300	96,000	116,000	238,000	66,800	40,200	19,000	38,200	13,800	8,980
6	27,100	14,300	14,300	68,100	92,600	200,000	62,000	34,800	19,000	31,500	15,800	9,350
7	25,300	13,800	16,900	60,000	73,600	167,000	58,600	32,100	17,900	25,300	14,300	9,750
8	22,900	13,800	17,900	54,500	62,000	135,000	60,600	32,100	17,900	22,400	12,400	9,750
9	21,800	13,800	17,900	48,400	53,800	116,000	61,300	31,500	18,500	20,700	11,400	9,750
10	20,700	13,800	19,600	46,400	49,100	110,000	58,600	29,600	19,000	19,600	12,800	9,750
11	19,000	13,800	19,600	43,600	45,000	90,600	54,500	28,300	17,900	19,000	15,800	9,350
12	19,000	13,800	22,400	40,900	40,900	81,700	51,100	27,100	19,000	19,000	15,300	9,750
13	19,600	14,300	22,900	38,200	37,500	76,300	48,400	25,900	19,600	20,100	13,800	11,400
14	22,400	14,300	26,500	36,200	34,800	70,200	45,000	25,300	18,500	27,100	11,900	12,400
15	24,100	14,300	116,000	33,400	34,800	65,400	43,600	25,300	17,400	28,300	10,600	11,900
16	22,900	14,300	176,000	31,500	35,500	62,000	42,300	25,900	16,900	23,500	10,200	11,400
17	22,900	13,800	190,000	30,200	34,800	77,000	40,900	26,500	16,900	21,200	9,750	11,000
18	22,400	13,800	176,000	28,900	33,400	92,600	40,200	25,300	16,900	18,500	9,750	9,750
19	20,700	13,300	129,000	28,900	32,100	95,300	39,600	25,300	22,400	17,400	9,750	9,350
20	18,500	13,300	71,500	29,600	31,500	89,900	38,900	24,700	25,300	16,300	9,350	9,350
21	17,400	12,800	50,400	30,800	29,600	77,600	38,200	24,700	25,900	14,800	9,750	9,350
22	17,400	12,400	38,900	36,200	32,800	66,100	36,800	25,300	24,700	15,300	10,200	11,900
23	17,400	12,800	32,800	38,200	40,200	58,600	35,500	27,100	22,400	16,300	10,200	14,800
24	16,900	14,300	33,400	39,600	47,700	54,500	34,800	25,900	21,800	14,800	9,750	14,800
25	16,900	14,300	40,900	38,900	49,100	50,400	34,100	25,900	20,700	13,300	9,350	15,800
26	16,300	14,300	47,700	35,500	51,800	47,000	32,600	25,300	19,600	11,900	9,350	18,500
27	15,800	14,800	63,400	36,800	52,500	45,000	31,500	23,500	22,400	11,900	9,750	20,100
28	15,300	14,300	103,000	51,800	84,400	43,000	30,800	22,400	21,800	11,400	9,750	20,100
29	14,800	14,300	157,000	79,700	.....	81,700	29,600	24,700	22,400	11,400	10,200	20,100
30	14,300	13,800	212,000	101,000	.....	174,000	29,600	25,300	28,300	11,900	11,400	19,600
31	14,300	.....	248,000	123,000	.....	205,000	.....	24,100	.....	13,300	10,600	.....

Daily discharge, in second-feet, of Tennessee River at Chattanooga, Tenn.
—Continued.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1903.												
1	21,800	8,980	29,600	26,500	27,100	174,000	112,000	55,200	38,200	22,900	15,800	10,600
2	20,700	8,980	28,900	25,300	27,700	205,000	107,000	50,400	49,800	21,200	14,600	10,200
3	21,800	9,350	39,600	30,200	28,900	193,000	94,600	47,000	72,900	20,700	16,300	9,350
4	18,500	9,750	44,300	35,800	45,700	154,000	82,400	43,600	72,200	20,100	21,200	9,350
5	16,900	9,750	47,000	40,900	98,700	105,000	77,600	41,600	62,700	20,100	21,200	8,960
6	15,800	9,750	45,000	40,200	127,000	83,100	78,300	39,600	57,200	21,200	23,500	8,960
7	13,800	9,350	45,000	49,800	113,000	77,600	74,900	38,900	60,600	21,800	27,700	8,960
8	12,400	11,000	38,900	45,700	116,000	93,300	99,400	36,800	70,200	21,200	23,500	8,960
9	11,900	12,800	34,800	39,600	111,000	135,000	161,000	34,800	65,400	22,400	20,100	8,960
10	11,400	12,400	30,200	34,800	98,000	159,000	200,000	33,400	55,200	22,400	16,900	8,580
11	12,800	11,400	26,500	31,500	91,900	157,000	210,000	32,100	53,200	21,800	14,800	8,580
12	16,300	11,000	23,500	36,200	103,000	137,000	184,000	30,800	47,000	21,200	15,300	8,210
13	15,300	11,000	21,800	42,300	105,000	118,000	128,000	29,600	48,400	22,900	18,500	8,210
14	15,300	10,200	20,100	42,000	94,600	104,000	113,000	28,300	42,300	32,800	16,300	8,210
15	18,500	9,750	19,000	38,200	86,500	95,360	133,000	27,700	36,800	31,500	17,900	8,580
16	19,000	9,350	19,600	34,800	77,600	86,500	143,000	27,100	32,100	30,800	21,200	8,210
17	19,600	9,350	27,100	33,400	119,000	74,900	138,000	26,500	28,900	32,100	22,900	7,850
18	16,900	9,350	44,300	30,800	170,000	66,800	122,000	25,900	26,500	28,900	21,200	8,580
19	15,800	10,600	47,000	28,900	193,000	60,600	103,000	25,300	24,700	26,500	19,000	8,960
20	14,800	11,400	43,000	27,100	191,000	55,200	90,600	24,100	24,100	22,900	21,200	8,960
21	12,800	12,400	41,600	25,300	160,000	55,200	83,800	23,500	24,100	21,200	18,500	8,210
22	11,900	11,400	53,200	24,700	98,700	55,200	82,400	22,900	24,100	22,400	16,900	8,580
23	11,000	11,400	59,300	23,500	70,800	62,000	82,400	22,400	24,100	20,100	16,300	8,580
24	11,000	11,900	53,200	22,400	61,300	108,000	78,200	22,400	24,100	17,900	14,300	8,210
25	10,200	12,400	43,000	22,400	53,800	169,000	67,400	21,200	23,800	16,300	12,800	7,850
26	9,750	19,600	38,200	23,500	48,400	190,000	62,700	21,200	22,900	15,300	11,900	7,850
27	9,350	35,500	32,800	24,100	45,000	180,000	59,300	20,100	22,900	14,800	11,000	7,160
28	9,350	36,800	28,900	24,700	80,400	131,000	56,600	19,600	25,300	13,800	10,600	6,830
29	8,960	33,400	25,300	25,300	.....	87,800	56,600	19,600	26,500	13,300	10,200	6,830
30	8,580	30,800	24,100	26,500	.....	83,100	59,300	21,200	25,300	13,300	10,200	6,510
31	8,580	.....	25,900	27,100	.....	103,000	.....	26,500	.....	12,800	11,000	.....
1904.												
1	6,510	7,160	8,210	17,400	19,000	49,100	55,200	34,800	24,100	20,100	12,800	12,600
2	6,510	7,600	8,210	14,800	17,400	44,300	49,100	45,700	22,900	20,700	12,800	11,900
3	6,510	8,210	8,210	13,300	15,800	41,600	43,000	39,600	24,100	24,100	14,800	11,000
4	6,510	8,580	7,850	12,800	15,300	38,900	38,900	33,400	24,700	22,400	13,800	11,000
5	6,510	11,000	7,850	11,900	14,300	35,500	34,800	30,800	27,700	21,800	14,800	10,600
6	6,510	11,000	7,500	11,900	13,800	36,200	32,100	29,600	27,700	19,000	16,300	10,600
7	6,510	9,750	7,850	10,600	13,300	35,500	30,800	27,700	25,300	17,400	20,700	12,800
8	7,160	9,350	7,500	10,200	20,100	48,400	30,800	30,800	21,200	16,300	20,700	13,800
9	7,850	8,960	7,850	9,750	27,100	68,800	33,400	32,100	20,700	15,300	18,500	12,800
10	9,750	8,960	7,500	10,200	34,100	70,800	34,100	37,500	20,700	16,300	18,500	11,900
11	9,350	8,960	7,500	10,600	30,800	69,500	34,800	41,600	19,000	16,300	18,500	11,000
12	8,960	8,960	7,500	10,600	31,500	62,700	32,100	43,000	17,900	17,400	18,500	10,200
13	8,580	8,960	7,850	11,400	27,700	55,200	30,200	38,900	15,800	17,400	22,900	9,350
14	8,580	8,960	7,500	12,400	24,700	51,800	27,700	32,800	14,800	20,100	20,700	8,960
15	7,850	8,580	7,500	13,300	21,800	55,900	26,500	30,800	14,300	19,000	18,500	8,580
16	7,500	8,580	7,850	14,300	20,100	54,500	24,700	29,600	14,300	16,900	18,500	8,210
17	7,850	9,750	8,580	14,800	19,600	49,100	24,100	27,700	13,800	14,800	22,900	7,850
18	7,850	20,100	8,210	16,300	18,500	42,300	24,100	25,300	12,800	13,800	21,800	7,850
19	7,850	32,100	7,850	21,800	17,400	38,900	24,100	24,100	12,400	12,800	17,400	7,500
20	7,500	33,400	9,350	21,200	17,900	35,500	23,500	22,900	11,900	12,400	15,300	7,500
21	7,500	25,900	16,900	20,100	20,700	33,400	22,900	21,200	11,900	11,000	13,800	7,500
22	7,500	21,200	28,500	20,100	29,600	44,300	22,400	20,100	12,400	10,600	13,800	7,160
23	7,500	17,400	24,700	34,800	36,800	81,700	22,400	19,600	14,800	11,400	12,800	7,160
24	7,160	14,300	20,700	66,100	47,700	118,000	22,400	19,000	15,300	12,800	12,800	7,160
25	7,160	12,400	20,700	56,600	49,100	142,000	22,400	17,400	13,300	12,400	16,300	7,160
26	6,830	11,000	19,000	45,000	47,700	136,000	21,200	16,300	13,300	11,900	16,900	6,830
27	6,830	10,200	17,400	42,300	42,300	124,000	20,700	15,800	12,400	12,800	15,800	6,510
28	6,510	9,750	20,700	33,400	43,600	109,000	22,900	15,300	12,800	13,800	11,800	6,510
29	6,510	8,960	21,200	27,100	55,200	89,200	25,900	15,300	15,300	12,400	11,800	6,510
30	6,510	8,580	21,200	23,500	.....	74,200	26,500	14,800	19,000	14,800	14,300	6,510
31	6,830	.....	20,700	21,200	.....	64,000	.....	16,900	.....	16,300	13,300	.....

Daily discharge, in second-feet, of Tennessee River at Chattanooga, Tenn. —Continued.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1905.												
1	6,830	5,060	8,210	30,600	15,800	52,500	27,100	52,500	34,100	52,500	21,200	19,000
2	6,830	5,060	9,350	30,800	17,900	47,700	27,100	48,400	30,800	36,800	21,200	18,500
3	6,510	5,230	10,600	30,800	17,900	43,600	25,300	40,900	27,100	29,600	24,100	19,600
4	6,200	5,900	12,800	22,400	17,400	40,200	24,700	36,200	24,100	24,700	21,800	18,500
5	5,900	6,200	12,400	23,500	16,900	37,500	24,100	32,800	22,900	23,500	18,500	19,600
6	6,200	6,200	19,600	25,300	21,200	35,500	24,700	30,200	21,200	22,900	16,900	19,600
7	5,900	6,510	24,700	24,100	28,900	34,150	25,300	28,900	20,700	21,800	16,900	18,500
8	5,610	6,510	33,400	25,900	37,500	32,100	28,300	31,500	19,600	22,400	15,800	18,500
9	5,330	6,510	32,800	27,100	76,300	34,100	27,700	38,200	19,000	25,300	17,900	17,900
10	5,610	7,500	30,800	29,600	133,000	66,100	36,200	47,700	19,000	25,900	19,600	16,900
11	5,610	7,800	23,500	28,300	146,000	104,000	36,800	48,400	17,400	25,300	28,900	15,300
12	5,610	7,500	19,600	28,900	131,000	112,000	39,600	43,000	16,900	29,600	38,200	14,300
13	5,610	7,160	16,900	59,200	103,000	98,700	41,600	36,800	16,300	38,900	43,000	15,800
14	5,330	6,510	15,300	111,000	86,500	85,100	43,600	33,400	16,900	65,400	51,100	15,300
15	5,330	6,510	14,300	106,000	84,400	66,100	47,000	33,400	17,400	80,400	54,500	14,300
16	5,330	6,830	16,800	96,700	77,000	53,800	44,300	43,000	17,900	70,800	53,800	13,800
17	5,330	7,160	12,300	70,800	70,200	48,400	39,600	68,100	18,500	56,600	45,700	13,800
18	5,330	7,500	12,400	49,100	67,900	40,900	34,800	87,200	18,500	43,600	41,600	13,300
19	5,330	7,850	11,000	38,900	60,400	37,500	31,500	85,800	17,400	36,200	37,500	12,800
20	5,330	8,210	11,000	33,400	47,700	34,800	28,900	74,200	24,100	31,500	35,500	11,900
21	5,060	7,850	10,600	30,200	95,300	38,200	26,500	59,300	27,700	28,900	33,400	11,900
22	5,060	7,850	10,200	28,300	140,000	41,600	26,500	47,000	28,300	30,800	28,900	11,400
23	5,060	7,500	9,780	26,800	137,000	45,000	26,500	44,300	34,800	28,900	25,900	11,000
24	5,060	7,850	9,350	24,700	126,000	41,600	26,500	58,600	34,100	26,500	23,500	10,600
25	5,060	7,850	9,350	22,400	100,000	37,500	25,300	63,400	32,800	27,100	33,400	10,600
26	5,060	7,850	11,900	20,700	83,100	35,500	24,700	53,800	28,900	28,300	41,600	10,200
27	5,060	8,210	16,900	19,000	70,200	32,800	30,200	45,700	25,300	30,800	34,800	10,200
28	5,060	7,850	43,600	16,300	60,000	30,800	36,200	40,200	24,700	27,100	30,800	9,750
29	5,060	7,850	63,400	13,800	.....	29,600	37,500	35,500	34,800	23,500	28,300	9,350
30	5,060	7,850	59,300	13,800	.....	28,900	45,700	33,400	32,100	21,200	25,300	9,350
31	5,060	.....	45,700	15,300	.....	27,700	.....	34,100	.....	21,200	22,400	.....
1906.												
1	8,960	14,800	9,750	31,500	59,300	30,200	94,600	27,700	22,900	25,900	46,400	82,400
2	8,960	13,800	10,200	28,900	55,900	29,600	78,300	27,100	21,200	23,500	55,200	73,600
3	9,350	12,800	13,800	28,300	53,800	31,500	66,100	27,100	22,900	21,800	58,600	64,000
4	9,350	11,900	38,900	50,400	50,400	49,800	56,600	27,700	24,100	20,700	49,800	54,500
5	10,200	11,400	65,400	75,600	46,400	57,900	50,400	28,900	24,100	19,600	45,700	46,400
6	10,600	11,000	60,000	81,700	41,600	52,500	45,000	31,500	24,100	19,600	47,700	47,700
7	10,600	10,600	53,800	78,300	38,200	46,400	42,300	34,800	22,900	20,700	43,600	55,900
8	10,200	10,200	42,300	68,100	35,500	43,000	40,900	43,000	21,800	20,700	40,900	64,700
9	9,750	10,200	38,900	55,900	33,400	39,600	40,900	49,800	21,800	24,700	38,200	64,700
10	9,750	10,200	58,600	49,100	32,100	36,800	44,300	54,500	21,200	30,800	33,400	57,200
11	10,200	10,200	60,000	45,700	30,200	34,100	52,800	50,400	20,100	31,800	31,800	56,600
12	14,800	9,750	57,900	41,600	28,300	32,800	57,200	41,600	17,900	29,600	29,600	53,800
13	17,900	9,750	49,100	39,600	27,100	30,800	53,200	35,500	17,900	25,300	27,700	48,400
14	20,700	9,350	40,200	40,900	26,500	28,900	49,100	31,500	24,700	26,500	26,500	41,600
15	16,900	9,350	35,500	40,900	26,500	32,800	51,100	28,900	30,800	39,600	28,900	36,200
16	16,900	8,960	39,600	44,300	25,900	43,600	53,200	27,100	47,000	53,200	36,800	32,800
17	14,800	8,960	38,900	48,400	25,900	61,300	57,900	25,300	56,600	47,700	43,600	29,600
18	13,300	8,900	34,800	54,500	25,300	66,100	62,700	23,500	52,500	57,200	43,600	27,700
19	12,400	8,580	32,800	53,200	25,300	64,730	63,400	22,400	46,400	90,600	45,700	27,100
20	11,400	8,960	30,800	48,400	24,700	66,800	54,500	21,200	40,200	96,000	46,400	35,500
21	11,000	8,960	26,800	45,000	24,700	66,100	46,400	20,700	34,800	67,400	46,400	49,100
22	11,000	9,350	45,000	43,600	27,700	60,000	41,600	20,100	31,500	64,000	43,600	69,600
23	11,400	10,200	49,100	53,200	31,500	54,500	38,200	19,600	28,900	75,600	40,900	64,000
24	11,900	10,200	57,900	78,300	34,800	49,100	34,800	19,600	27,700	87,200	38,200	56,600
25	11,400	9,750	68,800	112,000	33,400	44,300	32,800	19,000	34,800	77,600	38,200	51,800
26	12,400	9,750	64,700	140,000	31,500	40,900	30,800	18,500	38,900	60,000	42,300	46,400
27	16,300	9,750	55,200	123,000	30,200	39,600	29,600	18,500	39,600	49,100	43,600	41,600
28	18,500	9,750	47,000	85,100	29,600	40,900	30,200	20,700	36,200	45,000	39,600	38,200
29	18,500	9,750	41,600	69,500	.....	45,700	32,100	21,800	31,500	43,000	38,200	31,100
30	16,900	9,750	37,500	63,400	.....	59,300	30,200	22,900	28,300	38,900	46,400	35,500
31	16,300	.....	34,800	62,700	.....	87,200	.....	25,900	.....	41,600	60,000	.....

Daily discharge, in second-feet, of Tennessee River at Chattanooga, Tenn. —Continued.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1907.												
1	88,500	25,300	36,800	133,000	28,300	64,700	32,100	41,600	25,300	36,800	33,400	16,900
2	125,000	24,700	36,200	127,000	57,200	77,600	36,800	38,900	30,800	33,400	33,400	15,800
3	125,000	24,100	32,800	98,700	70,200	111,000	41,600	36,200	34,100	32,100	25,300	14,800
4	116,000	23,500	32,100	79,000	62,700	119,000	37,500	31,800	35,500	28,300	22,900	14,800
5	87,800	21,800	31,500	66,800	55,900	109,000	35,500	34,100	47,700	25,900	20,100	13,300
6	86,500	21,800	30,200	59,300	58,600	92,600	34,100	39,600	53,200	25,300	19,600	13,300
7	98,000	21,800	30,200	53,200	61,300	70,200	52,500	47,700	51,100	24,100	19,600	13,800
8	98,700	21,200	30,800	47,700	59,300	59,300	70,200	59,300	46,400	21,800	16,900	13,800
9	85,100	20,700	31,500	44,300	53,200	58,600	60,600	74,200	49,100	21,200	16,900	13,800
10	71,500	20,100	30,200	40,900	47,000	58,600	61,300	77,600	60,600	20,700	16,300	14,300
11	61,300	19,600	29,600	38,900	42,300	62,000	62,000	79,000	82,400	20,100	16,900	16,300
12	52,500	19,600	32,100	37,500	38,900	75,600	57,900	77,000	85,800	19,600	19,600	22,900
13	45,700	19,600	32,100	36,800	36,200	77,600	55,200	62,000	71,500	23,500	22,900	25,900
14	41,600	20,700	31,500	34,800	34,100	74,900	49,100	54,500	61,300	32,100	21,200	25,900
15	37,800	22,400	30,800	33,400	32,100	76,300	42,300	49,800	70,200	44,300	19,600	24,100
16	34,800	22,900	30,200	32,100	30,800	79,700	39,600	49,100	64,000	43,600	18,500	20,100
17	32,800	24,700	28,900	30,800	30,200	77,000	38,200	45,000	98,000	36,800	19,600	17,400
18	32,100	24,700	33,400	30,200	28,300	72,200	38,200	40,900	96,000	36,200	20,100	15,300
19	41,600	49,800	51,800	28,900	27,700	66,100	38,200	37,500	61,700	36,200	20,100	14,800
20	42,300	141,000	56,600	28,900	27,100	57,200	40,900	32,800	50,400	27,700	19,600	12,400
21	40,900	202,000	54,500	32,100	26,500	51,100	47,700	31,500	45,000	25,900	19,000	12,400
22	41,600	230,000	57,200	38,900	25,900	46,400	45,700	28,300	42,300	25,300	22,400	12,400
23	54,500	205,000	51,100	48,400	25,300	45,700	44,300	28,500	39,600	23,500	23,500	20,700
24	51,100	144,000	46,400	43,600	24,700	38,900	49,100	25,900	35,500	21,200	22,900	51,100
25	44,300	82,400	43,600	38,900	27,100	35,500	51,800	25,300	33,500	21,200	22,900	63,400
26	38,900	60,000	38,900	35,500	40,200	34,100	51,800	24,700	40,900	20,700	21,200	66,100
27	31,800	52,500	35,500	33,400	56,600	32,800	51,800	24,700	41,600	20,100	21,800	57,200
28	32,100	46,400	33,400	31,500	62,700	31,500	52,500	25,300	41,600	20,100	21,800	40,200
29	29,600	43,000	34,100	30,200	.....	30,800	53,200	25,300	40,200	18,500	20,100	33,400
30	27,700	40,200	62,700	29,600	.....	29,600	45,700	24,700	42,300	19,000	17,900	33,400
31	26,500	.....	105,000	28,900	.....	28,300	.....	24,700	.....	24,100	16,900	.....
1908.												
1	32,100	12,400	41,600	120,000	40,200	44,300	47,000	64,000	30,800	17,400	18,500	21,200
2	27,100	11,000	32,800	116,000	50,400	43,600	43,600	60,600	31,500	16,300	19,000	18,500
3	25,900	12,800	30,200	100,000	63,400	45,000	43,600	59,300	31,500	15,800	19,000	17,900
4	21,200	14,300	27,100	75,600	57,200	51,100	45,700	56,600	30,200	16,900	17,400	16,900
5	19,600	20,100	25,300	66,800	52,500	60,600	85,100	58,600	32,800	25,300	15,800	14,800
6	19,000	20,700	23,500	85,800	50,400	64,000	91,200	59,300	35,500	32,100	17,900	16,900
7	20,100	20,700	22,400	99,400	61,300	58,600	68,800	62,000	35,500	38,900	22,900	20,700
8	21,800	20,700	21,200	87,200	48,400	51,100	55,200	64,700	36,200	40,900	23,500	23,500
9	21,200	17,900	19,600	77,000	45,000	59,300	48,400	70,200	36,200	37,500	26,500	25,700
10	20,100	10,300	19,600	65,400	49,100	60,600	44,300	72,900	34,800	43,600	29,600	27,700
11	18,500	25,900	20,700	58,600	57,900	51,100	40,900	77,000	33,400	43,600	31,500	27,500
12	17,400	36,800	24,100	60,600	57,900	46,400	38,200	75,600	32,800	40,200	28,300	21,200
13	16,300	51,100	28,300	76,300	55,200	51,100	35,500	41,600	32,100	32,100	25,300	18,500
14	16,300	65,400	32,100	115,000	69,500	66,800	33,400	36,800	31,500	25,900	22,400	15,800
15	15,300	49,100	36,200	132,000	101,000	77,000	33,400	34,100	30,200	23,500	20,100	14,300
16	14,300	34,800	38,900	118,000	142,000	81,000	34,800	32,100	30,200	24,100	18,500	13,300
17	12,800	28,900	38,900	90,600	162,000	67,900	36,800	29,600	31,500	25,300	16,900	11,900
18	12,800	25,300	39,600	77,600	155,000	51,800	39,600	27,700	33,400	24,100	16,300	11,900
19	12,400	25,900	37,500	71,500	130,000	47,700	47,000	27,100	35,500	22,400	16,300	11,900
20	12,400	27,100	34,100	63,400	98,000	45,700	49,800	29,600	35,500	20,700	16,300	11,400
21	11,900	30,200	32,100	56,600	75,600	49,100	46,400	32,100	34,100	20,700	19,000	11,900
22	11,900	34,800	29,600	51,800	63,400	60,600	43,600	35,500	32,800	21,200	22,900	11,900
23	11,900	30,600	28,900	46,400	56,600	72,200	41,600	35,500	32,100	19,600	24,700	11,900
24	11,900	27,900	33,400	44,300	51,100	84,400	40,900	34,800	19,000	17,400	43,600	11,400
25	11,900	77,600	38,200	39,600	47,000	102,000	48,400	33,400	19,000	16,900	46,400	11,000
26	11,900	86,800	42,300	35,500	44,300	108,000	60,600	32,800	18,500	16,900	32,100	10,600
27	11,900	84,400	47,000	33,400	45,000	97,400	74,900	31,500	24,700	16,300	32,100	10,200
28	11,900	76,300	46,400	32,100	46,400	81,700	88,500	31,500	24,700	16,300	32,800	10,200
29	11,900	57,200	41,600	32,100	45,700	67,400	87,800	30,200	22,400	15,800	42,300	10,200
30	12,400	46,400	43,600	36,200	.....	57,200	73,600	30,200	20,700	16,300	40,200	9,750
31	12,800	.....	93,300	35,500	.....	51,100	.....	29,600	.....	17,400	27,700	.....

Daily discharge, in second-feet, of Tennessee River at Chattanooga, Tenn. —Continued.

Day	Oct.	Nov	Dec.	Jan.	Feb	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1909.												
1	9,750	36,800	13,300	43,000	35,500	84,400	104,000	88,000	39,000	45,600	33,900	16,500
2	9,350	35,500	13,800	47,700	34,100	69,500	81,200	137,000	38,400	47,600	43,700	16,500
3	9,350	28,300	17,900	45,700	32,800	60,000	68,300	160,000	40,400	49,600	48,900	16,500
4	9,350	25,300	27,100	43,000	32,100	53,800	56,200	155,000	102,000	47,600	52,200	16,500
5	9,350	23,500	28,900	43,000	30,800	49,100	50,300	127,000	149,000	43,700	53,600	14,500
6	9,350	19,000	27,700	51,800	32,100	46,400	47,000	90,000	163,000	39,000	51,600	14,500
7	8,960	16,900	35,500	61,300	39,600	50,400	45,000	71,700	151,000	35,200	43,700	14,000
8	8,960	15,800	64,000	61,300	49,100	66,100	45,600	64,300	108,000	38,400	38,400	14,000
9	9,850	15,300	89,200	59,300	48,400	72,200	51,600	60,900	80,500	71,000	34,600	14,000
10	9,750	14,800	83,100	51,800	59,300	103,000	53,600	47,000	90,700	117,000	30,200	15,500
11	10,600	14,300	70,800	47,000	85,800	132,000	48,900	47,600	80,500	109,000	28,400	17,600
12	12,400	13,800	55,200	42,300	116,000	149,000	44,300	52,200	75,700	76,400	27,200	17,000
13	13,800	14,800	45,000	40,200	110,000	140,000	43,700	63,600	70,300	57,600	26,000	17,600
14	13,800	19,000	45,700	38,900	105,000	152,000	47,000	58,300	63,000	55,600	23,700	17,000
15	14,800	19,600	47,700	40,200	85,800	161,000	48,300	48,900	67,000	75,000	26,000	16,500
16	13,800	19,000	45,700	58,600	92,800	139,000	48,300	43,000	71,000	81,200	26,600	15,500
17	12,800	17,900	40,200	78,300	127,000	108,000	47,000	39,700	71,000	72,300	26,000	15,000
18	11,900	16,900	34,800	90,600	129,000	91,400	44,300	37,100	65,000	61,600	63,000	14,500
19	11,400	16,300	30,800	103,000	107,000	77,100	39,700	35,200	58,300	48,300	81,200	15,500
20	11,400	16,300	28,300	106,000	92,600	69,600	34,600	33,900	57,600	40,400	52,900	16,000
21	11,000	15,800	26,500	81,700	79,700	69,000	33,300	41,000	52,900	37,800	39,700	16,500
22	10,600	15,800	25,900	62,000	75,600	74,400	34,600	63,600	54,200	35,800	32,100	16,000
23	9,750	15,300	44,300	50,400	111,000	73,000	38,400	127,000	50,300	33,900	27,200	20,300
24	9,350	15,300	66,800	45,000	131,000	67,000	47,600	137,000	46,300	32,100	26,000	21,400
25	9,350	14,800	76,300	40,900	141,000	62,300	54,900	98,800	49,600	37,800	22,500	26,000
26	12,800	14,300	74,200	37,500	139,000	71,700	50,900	67,600	54,900	33,900	20,300	30,200
27	20,700	14,300	62,000	34,800	123,000	88,600	47,000	54,900	51,600	31,400	19,200	27,200
28	28,300	13,800	47,700	32,300	105,000	91,400	45,600	47,600	56,200	29,600	18,600	21,400
29	21,200	13,800	42,300	32,100	.....	96,800	46,300	43,700	52,900	29,000	17,600	20,300
30	17,900	13,300	43,000	32,800	.....	111,000	47,000	42,300	48,300	25,400	17,000	18,600
31	19,600	.....	45,700	33,400	.....	115,000	.....	40,400	.....	26,000	17,000	.....
1910.												
1	16,000	11,700	10,300	13,100	27,200	45,000	18,600	34,600	43,000	33,300	41,700	15,500
2	15,000	11,700	10,300	12,600	26,600	65,000	18,100	30,800	38,400	35,200	47,000	19,700
3	14,000	11,700	9,900	12,100	25,400	83,900	17,600	28,400	35,200	35,800	38,400	53,600
4	13,100	11,200	9,900	15,500	24,300	81,200	17,000	26,600	34,600	39,700	32,700	50,900
5	12,100	11,200	9,900	16,000	24,800	71,000	17,000	24,800	32,700	39,700	30,800	41,700
6	12,100	11,200	9,900	19,200	26,000	58,900	16,500	23,700	32,700	38,400	34,600	38,400
7	11,700	11,200	10,800	23,300	27,800	50,300	16,500	22,500	49,600	43,700	35,800	34,600
8	11,200	11,200	18,600	70,300	27,800	43,700	15,500	22,500	54,900	54,900	34,600	34,600
9	11,200	10,800	24,300	70,300	27,200	39,000	15,500	39,000	46,300	70,300	36,500	32,100
10	11,200	10,800	24,800	58,300	25,400	36,500	15,000	48,900	42,300	67,000	30,800	28,000
11	11,700	10,300	22,500	52,900	24,800	33,900	15,000	50,900	41,700	63,600	31,400	25,400
12	12,600	10,300	21,400	41,700	24,300	33,900	15,000	50,900	40,400	62,300	29,600	28,600
13	14,000	10,300	19,700	33,300	23,700	33,900	14,500	49,600	39,000	52,200	25,400	26,600
14	16,000	10,300	23,100	29,000	23,700	32,700	14,500	42,300	41,000	47,000	23,100	25,400
15	21,400	10,300	26,600	26,000	23,700	32,100	14,500	37,800	43,000	47,600	20,800	22,800
16	33,900	9,900	29,600	24,300	23,100	31,400	16,000	33,900	42,300	49,600	20,300	20,300
17	30,800	9,900	32,700	23,700	23,100	29,600	20,300	33,900	45,600	52,200	19,200	18,600
18	25,400	9,900	30,200	23,100	41,700	27,800	34,600	34,600	45,600	50,300	18,600	17,600
19	23,100	9,900	27,200	22,500	77,100	26,600	46,300	39,700	45,000	48,300	17,600	16,000
20	19,700	9,900	22,500	27,800	85,900	25,400	43,000	43,700	41,000	43,000	17,600	15,500
21	17,000	9,900	20,300	38,400	79,100	24,300	38,400	48,300	39,700	39,000	17,000	14,500
22	16,500	9,900	19,200	47,000	71,000	23,700	34,600	54,200	37,800	36,500	19,700	14,000
23	15,000	9,900	18,100	56,900	62,300	23,700	31,400	55,600	36,500	33,900	19,700	14,000
24	14,500	9,900	16,500	55,600	58,900	22,000	28,400	53,600	33,300	31,400	18,100	13,600
25	13,600	10,800	15,000	54,900	54,200	22,000	26,600	67,000	32,700	29,000	17,600	13,100
26	13,100	11,200	16,000	47,600	47,600	22,000	26,600	82,500	32,700	28,400	17,000	12,600
27	13,100	11,700	18,100	39,700	41,000	21,400	26,600	77,800	32,100	27,200	16,500	12,600
28	13,100	11,200	18,100	35,200	38,400	20,300	27,800	71,700	30,800	26,000	16,000	13,100
29	12,600	10,800	17,600	32,100	.....	20,300	33,300	64,300	32,100	26,000	15,500	13,100
30	12,600	10,300	16,500	29,600	.....	19,700	36,500	54,200	32,700	28,400	16,500	13,600
31	12,100	.....	15,000	29,000	.....	19,200	.....	45,000	.....	31,400	16,500	.....

Daily discharge, in second-feet, of Tennessee River at Chattanooga, Tenn.—Continued.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1911.												
1	13,600	8,730	9,900	25,400	36,500	29,600	99,700	38,400	18,100	19,700	14,000	9,490
2	14,000	8,730	10,300	64,300	42,300	28,400	85,200	58,900	17,600	16,500	13,600	9,490
3	15,000	8,730	10,300	131,000	57,800	28,400	82,700	71,000	17,000	14,500	13,600	11,200
4	15,000	8,730	10,300	166,000	49,600	28,400	80,800	70,300	17,000	14,000	13,600	16,500
5	14,000	8,730	11,700	161,000	45,000	27,200	90,700	58,900	16,500	14,000	16,500	15,000
6	13,100	8,730	26,000	147,000	50,900	26,000	163,000	48,900	16,500	12,600	18,600	14,000
7	12,600	8,730	48,900	118,000	54,900	25,400	187,000	42,300	16,500	12,600	18,100	15,500
8	12,600	8,730	63,600	79,100	56,200	25,400	194,000	39,000	16,000	12,600	17,600	15,500
9	12,600	8,730	50,900	56,200	96,100	69,000	195,000	36,500	16,000	12,600	17,000	16,000
10	13,100	8,730	46,300	47,000	139,000	115,000	177,000	33,300	16,000	12,600	17,000	15,000
11	15,500	8,730	35,200	41,000	153,000	127,000	135,000	32,100	17,000	12,600	16,000	14,000
12	16,500	8,380	27,200	36,500	154,000	103,000	107,000	30,800	17,000	15,500	16,000	13,600
13	16,500	8,380	22,500	33,300	131,000	68,300	96,800	29,600	15,500	17,000	14,000	13,600
14	15,500	8,380	19,700	30,800	93,400	53,600	86,200	27,800	13,600	17,000	14,000	12,600
15	13,600	8,380	17,600	28,400	69,000	45,600	77,100	26,000	13,100	17,000	13,100	12,600
16	12,600	8,050	16,000	27,200	57,600	41,000	85,900	24,800	12,600	18,600	13,100	12,100
17	11,700	8,050	15,000	25,400	50,300	35,200	91,400	23,700	12,100	18,100	13,100	11,700
18	11,200	8,050	14,000	24,800	44,300	30,800	92,000	23,700	12,100	18,100	13,100	11,200
19	11,200	8,050	13,600	24,300	40,400	28,400	86,600	23,700	12,100	18,100	14,500	11,200
20	10,800	8,050	13,100	24,300	37,800	26,000	97,500	23,700	12,100	17,600	15,000	11,700
21	10,300	8,050	13,100	24,300	37,800	26,000	99,500	23,100	12,600	15,500	14,500	11,700
22	9,900	8,050	13,100	24,300	37,800	26,600	88,600	23,100	12,600	14,500	13,100	11,200
23	9,900	8,050	13,100	23,100	37,100	26,600	74,400	23,700	13,100	15,000	12,100	11,200
24	9,490	8,050	13,100	23,100	35,800	26,600	64,300	26,600	13,100	15,500	11,200	11,200
25	9,490	8,050	13,100	22,500	35,200	26,600	56,200	26,000	13,100	27,200	10,800	11,200
26	9,490	8,050	14,000	27,800	33,300	26,600	50,000	24,800	13,100	26,000	10,300	11,200
27	9,490	8,050	16,500	33,300	32,100	29,600	46,300	22,500	13,100	26,000	9,900	11,700
28	9,490	8,380	17,600	32,100	30,800	37,800	43,000	21,400	13,100	20,300	9,490	15,500
29	9,490	9,100	18,100	29,600	.....	42,300	40,400	20,300	14,000	17,000	9,490	15,500
30	9,490	9,100	18,100	29,600	.....	42,300	38,400	19,200	18,600	15,000	9,490	13,100
31	9,100	.....	19,700	32,700	.....	42,300	.....	18,600	.....	14,500	9,490	.....
1912.												
1	12,100	15,000	22,500	76,100	84,800	85,400	180,000	154,000	49,400	35,200	26,000	17,600
2	11,200	14,500	21,400	79,800	84,100	72,400	158,000	157,000	42,000	32,100	26,000	16,500
3	11,200	13,600	20,800	71,100	74,200	60,000	150,000	134,000	37,000	31,400	26,000	15,500
4	11,200	13,100	19,700	62,400	60,600	52,500	178,000	99,600	33,300	30,800	28,400	15,000
5	11,200	13,100	18,600	54,400	44,500	48,800	183,000	76,100	31,400	32,700	21,300	14,500
6	11,200	12,600	17,600	46,900	41,400	48,200	177,000	67,400	30,800	34,500	23,100	14,000
7	11,200	13,100	16,500	40,700	37,600	48,200	137,000	63,700	30,800	44,500	22,500	14,000
8	11,700	15,500	16,000	35,800	31,400	53,100	88,500	68,600	32,100	44,500	22,500	13,600
9	14,000	18,100	15,500	35,200	30,200	59,300	73,000	70,500	29,600	43,200	22,500	13,600
10	14,000	20,800	15,000	35,800	28,400	63,700	64,900	64,300	29,000	39,500	22,000	13,100
11	14,000	24,300	14,500	38,900	28,400	71,100	60,000	58,700	27,800	37,600	22,000	13,100
12	14,500	26,000	14,500	37,600	26,600	73,600	55,000	55,000	26,000	45,100	22,000	13,100
13	19,700	27,200	14,500	37,000	26,600	74,800	51,300	50,700	24,300	45,700	21,400	12,600
14	20,800	31,400	15,500	35,200	26,600	70,500	48,200	47,800	20,800	43,800	20,300	12,100
15	20,300	33,300	18,600	32,100	26,000	81,700	45,100	44,500	20,800	38,300	19,200	12,100
16	20,300	30,800	29,000	32,100	30,200	120,000	44,500	42,600	23,100	35,200	19,200	11,700
17	21,400	28,400	37,800	26,000	35,200	144,000	48,200	42,000	23,700	33,300	20,300	11,200
18	30,800	27,200	30,500	24,800	35,800	144,000	54,400	41,400	24,800	31,400	22,000	11,200
19	33,300	27,200	29,600	22,500	34,500	131,000	57,500	41,400	26,000	28,400	21,400	12,100
20	39,700	27,800	26,000	23,700	33,900	105,000	58,100	43,800	24,800	28,400	20,800	13,100
21	41,000	27,800	26,000	26,600	35,800	77,900	51,900	43,800	23,700	29,600	20,800	14,500
22	44,300	27,200	26,000	30,800	63,700	64,900	48,800	39,500	21,400	30,200	21,400	14,500
23	35,800	27,200	35,800	30,800	88,500	54,400	68,600	35,800	20,300	33,300	23,100	20,300
24	27,200	26,000	46,300	32,700	92,800	52,500	92,200	33,300	19,200	33,300	23,700	24,300
25	23,700	24,300	58,300	32,700	89,700	75,500	86,600	31,400	20,300	30,800	28,400	33,900
26	20,800	23,700	60,900	29,600	81,700	92,200	71,100	30,200	26,600	30,200	26,600	27,200
27	20,300	23,100	90,000	27,800	86,000	81,000	61,200	29,600	30,200	29,600	24,300	26,600
28	19,200	23,100	117,000	26,600	105,000	75,500	57,900	28,400	34,500	32,100	22,000	26,600
29	17,600	23,100	118,000	27,800	96,400	121,000	122,000	30,800	36,400	33,300	20,300	26,000
30	16,000	23,100	90,700	50,700	.....	173,000	137,000	44,500	38,300	30,800	19,200	23,700
31	15,500	.....	80,500	79,800	.....	190,000	.....	56,900	.....	27,200	18,100	.....

Daily discharge, in second-feet, of Tennessee River at Chattanooga, Tenn. —Continued.

Day.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.
1913.												
1	20,300	10,800	9,490	42,000	89,700	135,000	163,000	30,200	58,700	17,000	14,000	9,420
2	18,100	10,300	9,490	46,900	72,400	130,000	102,000	29,600	53,100	16,500	13,500	9,000
3	16,500	10,300	9,490	46,900	62,400	99,600	73,600	29,000	53,100	16,000	13,500	9,000
4	15,000	10,300	9,900	49,400	58,700	76,700	63,700	27,800	49,400	16,500	13,500	9,000
5	14,000	10,200	17,000	46,900	57,500	61,200	57,500	26,600	45,700	16,500	14,000	9,000
6	13,600	10,300	39,500	40,700	57,500	51,900	53,100	26,000	42,600	16,500	14,000	9,000
7	13,100	10,300	55,600	40,100	55,600	46,300	48,800	24,800	42,000	16,500	13,500	8,580
8	12,600	10,300	59,300	95,300	51,900	42,000	45,700	24,800	42,000	16,500	12,100	7,800
9	12,100	11,200	48,800	107,000	46,300	38,900	43,200	24,800	43,200	17,000	11,600	7,800
10	11,700	14,500	39,500	97,800	41,400	37,000	40,700	24,800	42,600	15,500	11,600	7,800
11	11,200	17,000	32,700	86,000	38,900	40,100	38,900	25,400	49,400	14,500	12,500	8,190
12	10,800	18,100	27,200	71,700	45,700	45,700	38,300	25,400	44,500	13,500	14,500	8,190
13	10,800	17,600	24,300	70,500	58,700	49,400	37,600	24,300	38,900	13,500	14,500	8,190
14	10,800	16,000	21,400	70,500	81,700	83,500	39,500	23,700	33,300	15,000	15,000	7,800
15	10,800	14,500	19,700	65,500	69,300	146,000	44,500	22,500	29,000	15,000	14,000	7,430
16	10,800	13,600	18,600	60,600	58,700	182,000	44,500	22,500	26,600	14,000	13,000	7,070
17	12,100	13,600	17,600	53,100	49,400	190,000	47,600	22,500	25,400	13,000	12,100	7,070
18	13,100	12,600	17,600	45,700	44,500	185,000	50,700	22,500	23,700	12,500	12,100	7,070
19	13,100	11,700	17,600	49,400	40,100	154,000	50,000	24,300	23,100	12,100	11,600	7,070
20	13,100	11,700	18,600	60,000	37,000	105,000	47,600	28,400	22,000	11,200	11,600	7,070
21	14,500	11,700	18,600	59,300	37,000	77,300	44,500	31,400	20,800	10,700	11,600	9,000
22	15,000	11,200	18,100	58,700	37,000	76,100	40,700	29,000	20,800	10,300	11,600	9,420
23	14,500	11,200	17,000	61,800	36,400	76,100	37,600	27,800	20,800	9,840	11,200	10,300
24	13,100	10,800	17,000	65,500	35,200	72,400	34,500	38,900	20,800	9,840	11,200	12,500
25	12,600	10,800	18,100	90,300	34,500	65,500	32,700	72,400	20,200	9,840	11,200	12,500
26	12,100	10,300	20,800	119,000	32,100	58,700	31,400	95,300	18,600	9,840	10,700	12,100
27	11,700	10,300	22,000	125,000	33,900	78,600	30,800	98,300	18,100	11,200	10,700	12,100
28	11,700	10,300	22,000	131,000	81,000	154,000	30,200	79,800	18,100	11,600	10,700	10,700
29	11,200	9,900	21,400	140,000	.....	190,000	30,200	66,800	18,100	11,600	10,700	9,840
30	11,200	9,490	21,400	136,000	.....	202,000	30,200	64,900	17,600	13,500	10,700	9,840
31	10,800	.....	28,400	115,000	.....	200,000	.....	67,400	.....	14,500	9,840	.....

Monthly discharge of Tennessee River at Chattanooga, Tenn.

[Drainage area, 21,400 square miles.]

Month.	Discharge in second-feet.				Run-off (depth in inches on drainage area).
	Maximum.	Minimum.	Mean.	Per square mile.	
1874.					
April	190,000	29,600	108,000	5.05	5.63
May	195,000	22,900	74,000	3.49	4.02
June	32,800	11,400	20,300	.949	1.06
July	51,800	9,750	17,200	.804	.93
August	92,600	7,850	23,000	1.07	1.23
September	89,200	10,600	19,600	.916	1.02
The period	195,000	7,850	43,800	2.05	13.89

Monthy discharge of Tennessee River at Chattanooga, Tenn.—Continued.

Month.	Discharge in second-feet.				Run-off (depth in inches on drainage area).
	Maximum.	Minimum.	Mean.	Per square mile.	
1875.					
October	27,700	8,210	13,600	0.636	0.73
November	67,400	6,830	23,800	1.11	1.24
December	56,600	15,800	34,200	1.60	1.84
January	215,000	22,900	59,300	2.77	3.19
February	357,000	37,500	100,000	4.67	4.86
March	361,000	77,000	179,000	8.36	9.64
April	133,000	40,900	72,800	3.40	3.79
May	135,000	19,600	39,500	1.85	2.13
June	32,100	16,900	24,300	1.14	1.27
July	130,000	28,300	51,600	2.41	2.78
August	77,000	22,400	37,000	1.73	1.99
September	70,200	14,300	23,100	1.08	1.20
The year	361,000	6,830	54,700	2.56	34.66
1876.					
October	32,100	12,800	17,300	.808	.93
November	43,000	13,300	30,700	1.43	1.60
December	227,000	22,400	58,600	2.74	3.16
January	205,000	29,600	70,900	3.31	3.82
February	143,000	43,000	76,000	3.55	3.83
March	137,000	32,100	67,700	3.16	3.64
April	85,800	34,800	54,400	2.54	2.83
May	130,000	39,600	66,100	3.09	3.56
June	153,000	27,100	57,900	2.71	3.02
July	46,400	19,000	31,200	1.46	1.68
August	34,800	14,300	22,000	1.03	1.19
September	19,000	11,400	13,800	.645	.72
The year	227,000	11,400	47,200	2.21	29.98
1877.					
October	19,000	7,850	10,700	.500	.58
November	21,800	8,580	11,600	.542	.60
December	19,000	9,350	13,000	.607	.70
January	178,000	10,600	72,900	3.41	3.93
February	36,200	17,400	24,400	1.14	1.19
March	108,000	17,400	55,900	2.61	3.01
April	189,000	49,800	94,000	4.39	4.90
May	71,500	19,600	36,900	1.72	1.98
June	28,900	15,800	19,600	.916	1.02
July	29,600	11,400	17,500	.818	.94
August	14,300	8,960	11,300	.528	.61
September	17,900	9,350	12,900	.603	.67
The year	189,000	7,850	31,800	1.49	20.13
1878.					
October	22,400	8,580	13,700	.640	.74
November	90,000	12,800	37,000	1.73	1.93
December	51,800	17,900	31,900	1.49	1.72
January	79,000	27,700	46,500	2.17	2.50
February	125,000	38,900	63,000	2.94	3.06
March	66,100	25,900	40,800	1.91	2.20
April	58,600	23,500	37,000	1.73	1.93
May	44,300	22,400	32,400	1.51	1.74
June	22,900	12,800	16,800	.785	.88
July	15,300	8,210	11,800	.551	.64
August	23,500	8,580	15,200	.710	.82
September	66,100	7,500	16,900	.790	.88
The year	125,000	7,500	30,000	1.40	19.04
1879.					
October	41,600	7,850	13,400	.626	.72
November	116,000	11,000	24,600	1.15	1.28
December	92,600	28,900	55,900	2.61	3.01
January	252,000	23,500	92,200	4.31	4.97
February	122,000	40,200	67,200	3.14	3.27
March	68,800	25,300	37,600	1.76	2.03
April	53,800	24,700	40,500	1.89	2.11
May	37,500	16,900	25,200	1.18	1.36
June	18,500	7,850	12,700	.593	.66
July	11,400	7,160	8,300	.388	.45
August	24,100	8,580	15,900	.743	.86
September	15,800	5,900	9,360	.437	.49
The year	252,000	5,900	33,400	1.56	21.21

Monthy discharge of Tennessee River at Chattanooga, Tenn.—Continued.

Month.	Discharge in second-feet.				Run-off (depth in inches on drainage area).
	Maximum.	Minimum.	Mean.	Per square mile.	
1880.					
October	85,100	5,330	19,600	0.916	1.06
November	27,700	9,750	15,100	.706	.79
December	143,000	20,700	68,700	3.21	3.70
January	66,100	23,500	38,600	1.80	2.08
February	176,000	23,500	56,800	2.65	2.86
March	254,000	45,700	127,000	5.98	6.84
April	109,000	38,200	67,700	3.16	3.53
May	92,600	23,500	41,700	1.95	2.25
June	36,200	12,800	20,300	.949	1.06
July	47,000	11,900	20,800	.972	1.12
August	27,100	10,600	18,300	.879	1.01
September	22,400	9,350	14,700	.687	.77
The year	254,000	5,330	42,600	1.99	27.07
1881.					
October	19,000	7,850	9,900	.463	.53
November	85,800	8,580	18,200	.850	.95
December	174,000	25,900	62,760	2.93	3.38
January	122,000	17,900	60,200	2.81	3.24
February	146,000	34,100	76,300	3.57	3.72
March	125,000	35,500	56,800	2.65	3.06
April	116,000	40,900	62,100	2.90	3.24
May	53,800	17,900	30,500	1.43	1.65
June	28,900	12,800	19,600	.916	1.02
July	20,100	8,580	12,400	.579	.67
August	18,500	5,230	8,080	.378	.44
September	72,200	4,800	14,500	.678	.76
The year	174,000	4,800	35,700	1.67	22.66
1882.					
October	17,400	5,900	8,880	.415	.48
November	62,000	17,900	36,900	1.72	1.92
December	131,000	19,000	64,800	3.02	3.48
January	267,000	54,500	175,000	8.18	9.43
February	197,000	57,200	124,000	5.79	6.08
March	144,000	53,200	86,000	4.02	4.64
April	70,200	31,500	49,200	2.30	2.57
May	53,200	25,300	34,100	1.59	1.83
June	62,000	25,300	37,800	1.77	1.98
July	40,900	18,500	26,600	1.24	1.43
August	36,800	13,800	23,900	1.12	1.29
September	149,000	16,300	40,000	1.87	2.09
The year	267,000	5,900	58,500	2.73	37.17
1883.					
October	24,100	10,600	14,000	.654	.75
November	23,500	10,600	13,600	.636	.71
December	62,000	12,800	25,500	1.19	1.37
January	254,000	21,200	96,100	4.49	5.18
February	114,000	45,000	66,800	3.12	3.25
March	60,800	28,300	40,400	1.89	2.18
April	215,000	69,500	119,000	5.56	6.20
May	68,800	21,800	34,200	1.60	1.84
June	40,900	17,900	25,300	1.18	1.32
July	22,900	9,350	15,700	.734	.85
August	14,800	8,580	10,500	.491	.57
September	14,300	4,800	7,610	.356	.40
The year	254,000	4,800	38,800	1.81	24.62
1884.					
October	35,500	7,500	11,700	.547	.63
November	68,100	8,960	21,800	1.02	1.14
December	82,400	14,300	29,800	1.39	1.60
January	94,600	19,000	52,400	2.45	2.82
February	344,000	59,300	148,000	6.92	7.46
March	285,000	47,700	157,000	7.34	8.46
April	109,000	38,200	68,500	3.20	3.57
May	71,500	24,100	40,800	1.90	2.19
June	71,500	19,000	34,900	1.63	1.82
July	50,400	14,800	27,900	1.30	1.50
August	60,600	11,000	19,600	.916	1.06
September	17,900	6,510	9,000	.421	.47
The year	285,000	6,510	51,500	2.41	32.72

Monthly discharge of Tennessee River at Chattanooga, Tenn.—Continued.

Month.	Discharge in second-feet.				Run-off (depth in inches on drainage area).
	Maximum.	Minimum.	Mean.	Per square mile.	
1885.					
October	7,850	5,330	6,080	0.284	0.33
November	11,000	6,510	7,940	.371	.41
December	79,700	8,210	25,400	1.19	1.37
January	174,000	20,100	70,500	3.29	3.79
February	59,300	29,300	42,100	1.97	2.05
March	56,600	28,300	39,400	1.84	2.12
April	99,400	22,900	36,800	1.72	1.92
May	89,200	19,000	31,300	1.46	1.68
June	120,000	19,000	35,500	1.66	1.85
July	31,500	15,800	20,500	.958	1.10
August	24,700	8,960	15,400	720	.83
September	12,800	6,830	9,750	.456	.51
The year	174,000	5,330	28,300	1.32	17.96
1886.					
October	99,400	11,900	26,300	1.23	1.42
November	201,000	64,700	66,400	3.10	3.46
December	140,000	25,900	53,500	2.50	2.88
January	144,000	28,900	76,700	3.58	4.13
February	83,100	31,500	49,200	2.30	2.40
March	269,000	28,300	61,300	2.86	3.30
April	349,000	34,800	136,000	6.36	7.10
May	67,400	32,800	50,400	2.36	2.72
June	103,000	43,000	64,400	3.01	3.36
July	87,800	25,900	50,000	2.34	2.70
August	42,300	19,600	28,500	1.33	1.53
September	19,000	11,900	15,200	710	.79
The year	349,000	11,900	56,400	2.64	35.79
1887.					
October	11,900	8,580	10,000	.467	.54
November	87,200	9,350	30,300	1.42	1.58
December	107,000	22,400	49,000	2.29	2.64
January	142,000	28,300	58,100	2.71	3.12
February	180,000	52,500	99,700	4.66	4.85
March	180,000	29,600	66,700	3.12	3.60
April	138,000	23,500	45,100	2.11	2.35
May	38,900	25,900	30,800	1.44	1.66
June	64,700	20,700	38,700	1 81	2.02
July	32,100	11,400	18,900	883	1.02
August	66,100	18,500	27,800	1.30	1.50
September	22,400	8,960	11,900	.556	.62
The year	180,000	8,580	40,200	1 88	25.50
1888.					
October	26,500	8,580	13,600	636	.73
November	16,900	9,350	11,700	547	.61
December	31,500	10,200	18,800	879	1.01
January	169,000	32,100	71,700	3.35	3.86
February	70,200	29,600	47,900	2 24	2.42
March	178,000	27,100	53,800	2 51	2.89
April	154,000	25,900	62,000	2 90	3.24
May	59,300	22,400	32,500	1 52	1.75
June	56,600	15,800	28,600	1 34	1.50
July	42,300	11,000	19,400	907	1.04
August	36,200	11,900	16,900	.790	91
September	72,200	19,600	46,800	2.19	2.44
The year	178,000	8,580	35,200	1.64	22.40
1889					
October	130,000	15,800	39,500	1.85	2.13
November	137,000	30,800	67,400	3 15	3.51
December	40,900	22,400	28,100	1.31	1.51
January	89,200	31,500	60,300	2.82	3.25
February	195,000	36,200	87,300	4.08	4.25
March	58,600	17,900	37,500	1.75	2.02
April	49,800	17,900	29,600	1.38	1.54
May	28,300	15,300	20,400	.953	1.10
June	78,300	21,800	42,200	1.97	2.20
July	56,600	19,600	31,600	1.48	1.71
August	62,700	21,200	36,900	1.72	1.98
September	48,400	13,800	29,600	1.38	1.54
The year	195,000	13,800	42,100	1.97	26.74

Monthy discharge of Tennessee River at Chattanooga, Tenn.—Continued.

Month.	Discharge in second-feet.				Run-off (depth in inches on drainage area).
	Maximum.	Minimum.	Mean.	Per square mile.	
1890.					
October	27,100	12,400	15,100	0.706	0.81
November	70,800	15,200	47,900	2.24	2.50
December	46,400	19,600	26,700	1.26	1.44
January	52,400	26,900	40,600	1.90	2.19
February	221,000	42,200	75,100	3.51	3.66
March	269,000	52,500	117,000	5.47	6.31
April	123,000	40,900	66,500	3.11	3.47
May	74,900	33,900	50,500	2.36	2.72
June	35,500	17,400	24,400	1.14	1.27
July	46,400	11,900	21,800	1.02	1.18
August	45,000	14,300	26,800	1.24	1.43
September	45,700	15,300	23,100	1.08	1.20
The year	283,000	11,900	44,400	2.07	28.18
1891.					
October	58,000	20,700	35,000	1.64	1.89
November	40,200	13,800	21,000	.981	1.09
December	31,700	13,300	32,500	1.52	1.75
January	99,400	38,800	60,200	2.81	3.24
February	249,000	60,600	147,000	6.87	7.15
March	239,000	64,700	124,000	5.79	6.68
April	105,000	36,200	63,300	2.96	3.30
May	34,100	21,200	26,900	1.21	1.40
June	45,700	21,800	33,000	1.54	1.72
July	33,800	15,200	21,200	.991	1.14
August	106,000	16,900	37,300	1.77	2.04
September	33,800	11,500	20,200	.944	1.05
The year	259,000	11,800	51,200	2.39	32.45
1892.					
October	11,500	9,350	10,300	.481	.55
November	39,600	8,850	16,900	.789	.88
December	66,100	15,800	36,800	1.71	1.97
January	252,000	38,900	94,100	4.40	5.07
February	72,200	30,200	45,400	2.12	2.29
March	66,100	28,300	44,200	2.07	2.39
April	227,000	38,200	96,400	4.51	5.03
May	53,200	27,100	37,200	1.74	2.01
June	57,200	24,100	41,200	1.93	2.15
July	74,200	21,200	42,700	1.99	2.29
August	27,700	15,300	19,600	.916	1.06
September	25,300	8,980	14,500	.678	.76
The year	252,000	8,580	41,500	1.94	26.45
1893.					
October	12,800	8,210	9,430	.441	.51
November	41,600	8,210	22,700	1.06	1.18
December	57,200	14,800	28,700	1.34	1.54
January	42,300	16,300	21,800	1.00	1.15
February	221,000	35,000	101,000	4.72	4.92
March	75,600	32,800	49,400	2.31	2.66
April	76,300	27,100	40,000	1.87	2.09
May	198,000	25,900	70,600	3.30	3.80
June	135,000	22,900	48,800	2.28	2.54
July	31,500	14,800	20,200	.944	1.09
August	29,600	10,200	17,300	.808	.93
September	80,400	13,800	30,000	1.41	1.57
The year	221,000	8,210	37,800	1.77	23.98
1894.					
October	59,300	10,600	19,900	.930	1.07
November	27,100	13,300	15,800	.738	.82
December	26,500	14,300	19,400	.907	1.05
January	58,600	16,300	34,300	1.61	1.86
February	167,000	27,700	73,400	3.43	3.57
March	60,000	29,600	45,400	2.12	2.44
April	51,800	22,400	32,900	1.54	1.72
May	42,300	17,900	26,900	1.26	1.45
June	24,100	11,900	15,400	.720	.80
July	24,700	11,000	18,700	.874	1.01
August	25,900	11,000	16,700	.781	.90
September	22,400	7,160	11,100	.519	.58
The year	167,000	7,160	27,300	1.27	17.27

Monthy discharge of Tennessee River at Chattanooga, Tenn.—Continued.

Month.	Discharge in second-feet.				Run-off (depth in inches on drainage area).
	Maximum.	Minimum.	Mean.	Per square mile.	
1895.					
October	13,800	6,830	8,590	0.401	0.46
November	13,300	6,830	8,420	.393	.44
December	70,200	7,500	25,900	1.21	1.40
January	212,000	17,400	72,800	3.40	3.92
February	45,700	18,500	33,800	1.57	1.64
March	148,000	40,200	75,200	3.51	4.06
April	82,400	34,100	50,800	2.35	2.62
May	58,600	30,800	42,000	1.96	2.26
June	32,100	14,300	21,200	.991	1.10
July	64,700	13,800	25,000	1.17	1.35
August	35,500	15,300	21,900	1.02	1.18
September	19,000	7,500	13,000	.608	.68
The year	212,000	6,830	33,300	1.56	21.10
1896.					
October	7,850	6,830	7,320	.342	.39
November	13,800	8,210	9,760	.456	.51
December	29,600	8,960	14,400	.673	.78
January	49,800	13,300	23,500	1.10	1.27
February	89,200	23,500	55,400	2.59	2.79
March	101,000	19,000	37,600	1.76	2.03
April	269,000	20,100	71,400	3.34	3.73
May	25,900	12,400	17,800	.832	.96
June	41,800	14,800	21,400	1.00	1.12
July	141,000	17,400	56,500	2.64	3.04
August	31,500	12,800	19,500	.911	1.05
September	15,800	8,560	10,900	.509	.57
The year	269,000	6,830	28,700	1.34	18.24
1897.					
October	16,900	8,210	10,400	.486	.56
November	57,900	8,560	20,400	.953	1.06
December	88,500	14,300	31,200	1.46	1.68
January	43,600	13,800	25,400	1.19	1.37
February	231,000	16,900	84,600	3.95	4.11
March	252,000	82,500	144,000	6.75	7.78
April	201,000	33,500	78,200	3.65	4.07
May	146,000	23,500	59,000	2.38	2.74
June	35,500	18,500	26,100	1.22	1.36
July	77,000	19,000	31,000	1.49	1.72
August	31,500	12,400	19,600	.916	1.06
September	12,800	6,830	8,640	.404	.45
The year	252,000	6,830	44,100	2.06	27.90
1898.					
October	11,900	5,900	7,960	.372	.43
November	8,960	6,830	7,550	.353	.39
December	63,400	7,850	22,400	1.05	1.21
January	118,000	14,800	57,100	2.67	3.08
February	45,700	17,900	23,700	1.11	1.16
March	83,800	15,800	25,000	1.17	1.35
April	115,000	37,500	57,300	2.68	2.99
May	37,500	19,000	24,300	1.14	1.31
June	32,100	10,200	17,000	.794	.88
July	47,700	11,900	20,600	.963	1.11
August	101,000	21,200	48,400	2.26	2.61
September	164,000	19,000	46,000	2.15	2.40
The year	164,000	5,900	29,800	1.39	18.92
1899.					
October	109,000	17,900	42,800	2.00	2.31
November	40,200	21,800	28,400	1.33	1.48
December	34,800	20,100	28,700	1.34	1.54
January	122,000	27,100	50,300	2.35	2.71
February	254,000	32,100	103,000	4.81	5.01
March	266,000	59,300	155,000	7.24	8.35
April	149,000	41,600	74,400	3.48	3.88
May	70,200	23,500	43,000	2.01	2.32
June	37,500	16,900	24,500	1.14	1.27
July	29,600	11,000	16,100	.752	.87
August	23,500	8,580	12,600	.589	.68
September	16,900	7,850	10,700	.500	.56
The year	266,000	7,850	48,800	2.28	30.98

Monthy discharge of Tennessee River at Chattanooga, Tenn.—Continued.

Month.	Discharge in second-feet.				Run-off (depth in inches on drainage area).
	Maximum.	Minimum.	Mean.	Per square mile.	
1900.					
October	11,000	7,160	8,380	0.392	0.45
November	11,000	7,160	8,760	.409	.46
December	44,300	9,350	23,200	1.08	1.24
January	57,900	12,400	30,400	1.42	1.64
February	157,000	14,300	55,900	2.61	2.72
March	112,000	45,700	70,800	3.31	3.82
April	75,600	35,500	49,760	2.32	2.59
May	36,200	16,900	22,500	1.05	1.21
June	56,000	15,800	35,200	1.64	1.83
July	53,300	14,300	26,300	1.23	1.42
August	36,200	10,900	15,500	.724	.83
September	26,500	7,850	14,300	.668	.75
The year	157,000	7,160	29,900	1.40	18.96
1901.					
October	45,000	8,580	15,300	.715	.82
November	100,000	11,400	27,000	1.26	1.41
December	56,600	18,500	30,700	1.43	1.65
January	185,000	21,200	53,100	2.48	2.86
February	62,700	20,700	38,400	1.79	1.86
March	146,000	20,700	47,300	2.21	2.55
April	174,000	40,200	99,500	4.65	5.19
May	215,000	27,700	71,900	3.36	3.87
June	76,600	35,800	49,900	2.33	2.60
July	38,900	15,800	25,400	1.19	1.37
August	217,000	14,800	79,400	3.71	4.28
September	64,000	24,100	40,700	1.91	2.13
The year	217,000	8,580	48,200	2.25	30.59
1902.					
October	27,100	14,300	20,400	.953	1.10
November	14,800	12,400	14,000	.654	.73
December	248,000	12,800	68,800	3.22	3.71
January	271,000	28,900	73,900	3.45	3.98
February	152,000	29,600	62,900	2.94	3.06
March	252,000	43,000	113,000	5.28	6.09
April	204,000	29,600	57,400	2.68	2.99
May	57,200	22,400	29,800	1.39	1.60
June	25,300	16,900	20,500	.958	1.07
July	63,400	11,400	22,800	1.11	1.28
August	15,800	9,350	11,500	.537	.62
September	20,100	8,580	12,100	.565	.63
The year	271,000	8,580	42,400	1.98	26.86
1903.					
October	21,800	8,580	14,200	.664	.77
November	36,800	8,960	14,000	.654	.73
December	50,300	19,000	35,500	1.65	1.91
January	49,800	22,400	31,700	1.48	1.71
February	193,000	27,100	94,400	4.41	4.89
March	205,000	55,200	115,000	5.37	6.19
April	210,000	56,600	105,000	4.91	5.48
May	55,200	19,600	30,300	1.42	1.64
June	72,900	22,900	40,400	1.89	2.11
July	32,800	12,800	21,500	1.01	1.16
August	27,700	10,200	17,200	.804	.93
September	10,600	6,510	8,460	.395	.44
The year	210,000	6,510	43,500	2.03	27.66
1904.					
October	9,750	6,510	7,390	.345	.40
November	33,400	7,160	12,600	.589	.66
December	26,500	7,500	12,500	.584	.67
January	66,100	9,750	21,300	.995	1.15
February	55,200	13,300	28,300	1.32	1.38
March	142,000	33,400	64,500	3.01	3.47
April	55,200	20,700	29,500	1.38	1.54
May	45,700	14,800	27,400	1.28	1.48
June	27,700	11,900	17,600	.822	.92
July	24,100	10,600	15,900	.743	.86
August	22,900	12,800	16,700	.780	.90
September	13,800	6,510	9,170	.429	.48
The year	142,000	6,510	21,900	1.02	13.91

Monthly discharge of Tennessee River at Chattanooga, Tenn.—Continued.

Month.	Discharge in second-feet.				Run-off (depth in inches on drainage area).
	Maximum.	Minimum.	Mean	Per square mile.	
1905.					
October	6,830	5,060	5,510	0.257	0.30
November	8,210	5,060	7,070	330	.37
December	63,400	8,210	20,500	958	1.10
January	111,000	13,800	36,500	1.71	1.97
February	146,000	15,800	73,200	3.42	3.56
March	112,000	27,700	48,100	2.25	2.59
April	47,000	24,100	32,100	1.50	1.67
May	87,200	28,900	46,900	2.19	2.52
June	34,800	16,300	24,100	1.13	1.26
July	80,400	21,200	34,100	1.59	1.83
August	54,500	15,800	30,700	1.43	1.65
September	19,600	9,350	14,400	.673	.75
The year	146,000	5,060	30,900	1.44	19.57
1906.					
October	20,700	8,960	13,100	.612	.71
November	14,800	8,580	10,200	.477	.53
December	68,800	9,750	43,500	2.03	2.34
January	140,000	28,300	60,600	2.83	3.26
February	59,300	24,700	34,100	1.59	1.66
March	87,200	28,900	47,300	2.21	2.55
April	94,600	29,600	48,700	2.28	2.54
May	54,500	18,500	28,600	1.34	1.54
June	56,600	17,900	30,400	1.42	1.58
July	96,000	19,600	44,300	2.07	2.39
August	60,000	26,500	41,800	1.95	2.25
September	82,400	27,100	49,600	2.32	2.59
The year	140,000	8,580	37,800	1.77	23.94
1907.					
October	125,000	26,500	58,900	2.75	3.17
November	220,000	19,600	56,300	2.63	2.93
December	105,000	26,900	40,100	1.87	2.16
January	133,000	28,900	47,500	2.22	2.56
February	70,200	24,700	41,800	1.95	2.03
March	119,000	28,300	62,700	2.93	3.38
April	70,200	32,100	47,200	2.21	2.47
May	79,000	24,700	41,900	1.96	2.26
June	98,000	25,300	52,800	2.47	2.76
July	44,300	18,500	26,800	1.25	1.44
August	33,400	16,300	21,100	.986	1.14
September	66,100	12,400	23,900	1.12	1.25
The year	220,000	12,400	43,400	2.03	27.55
1908.					
October	32,100	11,900	16,400	.766	.88
November	86,500	11,900	37,600	1.76	1.96
December	93,300	19,600	34,500	1.61	1.86
January	132,000	32,100	71,000	3.32	3.83
February	162,000	40,200	69,700	3.26	3.52
March	108,000	43,600	62,800	2.93	3.38
April	97,200	33,400	52,300	2.44	2.72
May	77,000	27,100	45,000	2.10	2.42
June	36,200	18,500	30,300	1.42	1.58
July	43,600	15,800	24,600	1.15	1.33
August	46,400	15,800	25,300	1.18	1.36
September	27,700	9,750	15,500	.724	.81
The year	162,000	9,750	40,300	1.88	25.65
1909.					
October	28,300	8,960	12,600	.589	.68
November	36,800	13,300	18,200	.850	.95
December	89,200	13,300	45,100	2.11	2.43
January	106,000	32,100	52,800	2.47	2.85
February	141,000	30,800	83,900	3.92	4.06
March	161,000	46,400	90,100	4.21	4.85
April	104,000	33,300	49,800	2.33	2.60
May	160,000	33,900	71,400	3.34	3.85
June	163,000	38,400	72,000	3.36	3.75
July	117,000	25,400	50,500	2.36	2.72
August	81,200	17,000	34,500	1.61	1.86
September	30,200	14,000	17,800	832	.93
The year	163,000	8,960	49,700	2.32	31.55

Monthly discharge of Tennessee River at Chattanooga, Tenn.—Continued.

Month.	Discharge in second-feet.				Run-off (depth in inches on drainage area).
	Maximum.	Minimum.	Mean.	Per square mile.	
1910.					
October	33,900	11,200	15,800	0.738	0.85
November	11,700	9,900	10,600	.495	.55
December	32,700	9,900	18,900	.883	1.02
January	70,300	12,100	35,200	1.64	1.89
February	85,900	23,100	38,800	1.81	1.88
March	83,900	19,200	36,100	1.69	1.95
April	46,300	14,500	23,700	1.11	1.24
May	82,500	22,500	44,900	2.10	2.42
June	54,900	30,800	39,200	1.83	2.04
July	70,300	26,000	42,300	1.96	2.26
August	47,000	15,500	25,100	1.17	1.35
September	53,600	12,600	23,400	1.09	1.22
The year	85,900	9,900	29,500	1.38	18.69
1911.					
October	16,500	9,100	12,100	.565	.65
November	9,109	8,050	8,420	.393	.44
December	63,600	9,900	21,000	.981	1.13
January	161,000	22,500	51,100	2.39	2.76
February	154,000	30,800	62,100	2.90	3.02
March	127,000	25,400	42,400	1.98	2.28
April	195,000	30,800	90,100	4.21	4.70
May	71,000	18,600	32,700	1.53	1.76
June	18,600	12,100	14,700	.687	.77
July	27,200	12,600	16,700	.780	.90
August	18,600	9,490	13,600	.636	.73
September	16,500	9,490	12,800	.598	.67
The year	195,000	8,050	31,200	1.46	19.81
1912.					
October	44,300	11,200	20,500	.958	1.10
November	33,300	12,600	22,700	1.06	1.18
December	118,000	14,500	37,700	1.76	2.03
January	79,800	22,500	40,100	1.87	2.16
February	105,000	26,000	53,900	2.52	2.72
March	190,000	48,200	86,000	4.02	4.64
April	183,000	44,500	91,600	4.28	4.78
May	157,000	28,400	58,900	2.75	3.17
June	49,400	19,200	28,600	1.34	1.50
July	45,700	27,200	34,700	1.62	1.87
August	28,400	18,100	22,600	1.06	1.22
September	33,900	11,200	16,900	.790	.88
The year	190,000	11,200	42,800	2.00	27.35
1913.					
October	20,300	10,800	13,000	.607	.70
November	18,100	9,490	12,000	.561	.63
December	59,300	9,490	23,800	1.11	1.28
January	140,000	40,100	75,700	3.54	4.08
February	89,700	32,100	51,600	2.41	2.51
March	202,000	37,000	102,000	4.77	5.50
April	163,000	30,200	49,100	2.29	2.56
May	95,300	22,500	38,000	1.78	2.05
June	58,700	17,600	32,700	1.53	1.71
July	17,000	9,840	13,600	.636	.73
August	15,000	9,840	12,300	.575	.63
September	12,500	7,070	9,000	.421	.47
The year	202,000	7,070	36,000	1.68	22.85

TENNESSEE RIVER AT FLORENCE, ALA.

Location.—At Southern Railway bridge about 1 mile south of Florence, Ala., just below foot of Little Muscle Shoals and lower end of Patton's Island; 8 miles below mouth of Shoal Creek, about 3 miles above upper end of Seven Mile Island, 208 miles below Chattanooga, Tenn., and 256 miles above mouth of the Tennessee.

Records available.—November 7, 1871, to September 30, 1915.

Drainage area.—30,800 square miles.

Gage.—Present gage consists of four sections of steel, three-eighths inch by 7¼ inches, attached to face of stone draw pier, which has a batter of 1 inch to the foot. These sections form one continuous gage, graduated from —1.92 to 33.5 feet. The zero of the gage is 400.85 feet above sea level.

Description of the gages maintained at Florence and notes of inspections are given in "Stages of the Mississippi River and of its principal tributaries," published by the Mississippi River Commission. Descriptions of the station appear also in "Daily river stages," published by the United States Weather Bureau.

The gage at Florence was established November 6, 1871, and the zero set at the level of the low water of 1871, said to have occurred during October, elevation 30.19 feet below Merrill B. M. No. 1, the same elevation as the zero of the present gage. (For later information from Mississippi River Commission see pages 259-261.)

"Stages of the Mississippi River and of its principal tributaries" for 1892 states: "Gage is vertical type, located on the downstream face of approach wall, Florence side, of the Memphis & Charleston Railroad bridge." The report for 1893 states: "Vertical gage in three sections located at Florence end railroad bridge; sections 1 and 2 (34 to 18, 19 to 9.1) are attached to lower face of rock approach to bridge. Section 3 (10.0 to 0.0) is driven in the ground on upper side of approach to which sections 1 and 2 are fastened."

These descriptions of the gage are the first published and no doubt refer to the same gage, for there is no record of an inspection during 1892 or 1893, but this gage is evidently not the one established November 6, 1871, although the elevation of the zero is the same in all cases.

Bench marks.—B. M. No. 1[1] (Merrill, 1871). Southwest corner of top of fourth small pier north of bridge; elevation above gage datum, 30.19 feet; above sea-level datum, 431.04 feet. (Elevation above mean sea level given at 431.044 feet in Appendix 3 to Annual Report of United States Coast and Geodetic Survey, 1903).

P. B. M. No. 12.[1]—Top of copper bolt leaded vertically into northwest corner of east pedestal stone of the second pier north of the north abutment of the Florence bridge. Elevation above gage datum, 31.20 feet.

B. M. A. (Ewens, 1894).[2]—Cross, cut on top northeast corner of upstream end of first abutment pier from Florence side of Memphis & Charleston Railroad bridge, 1 foot from upstream face and 0.7 foot from northeast corner; elevation above zero of gage 34.67 feet. This bench mark has not been used for years; on November 19, 1914, it was not accessible, as the part of the pier mentioned was covered by a coal house.

B. M. No. 2.—Top of copper plug marked U. S. P. B. M., set in top, on upstream side, of stone foundation of second leg of steel railroad trestle from right abutment of wagon bridge; elevation above gage datum, 27.22 feet; above sea-level datum, 428.07 feet.

B. M. No. 3.—Cross mark, with letters U. S. B. M. around it, on top of downstream side of stone foundation of fourth bent of steel railroad trestle from right abutment of wagon bridge; elevation above gage datum, 31.08 feet; above sea-level datum, 431.93 feet.

Daily gage height.—The following tables contain gage heights furnished by the Mississippi River Commission. Where gage-height records are kept in such a way that all possible corrections are supposed to have been made by those charged with the maintenance of the gage, as is true of the Florence record, such records should be accepted as correct unless there is some tangible basis for additional corrections. Those maintaining a gage have first-hand information, and it is reasonable to assume that their values are the most probable ones, even though opinions may differ as to certain corrections. This point of view has been taken in preparing the records for the station at Florence. When the gage heights appeared erroneous but there were no data upon which to base a correction, the gage heights were published as read and adjustments made in the discharge computed therefrom as noted under "Daily discharge."

From November 7, 1871, to January 31, 1887, daily gage height in following tables is one reading per day at about 8 a. m., and from February 1, 1887, to September 30, 1913, the mean of two readings per day at about 8 a. m. and 4 p. m. From November 7, 1871, to October 23, 1894, the gage heights in the following tables are as published by the Mississippi River Commission, except that prior to January 1, 1890, they have been reduced to the nearest tenth of a foot, and that from January 9 to 22, 1881, the 8 a. m. readings are given, whereas for that period the Mississippi River Commission published the mean of 6 a. m., 12 m., and 6 p. m. readings. It appears that some of the gage heights prior to October 24, 1894, are subject to error, as pointed out under "Daily discharge" below. From October 24, 1894, to September 30, 1915, the gage heights are taken from the original records of the Mississippi River Commission at St. Louis with corrections, based upon the results of inspections, as follows:

June 1, 1895, to March 31, 1896, subtracted 0.1 foot; April 1 to October 27, 1896, subtracted 0.2 foot; April 10 to September 14, 1897, subtracted 0.1 foot; February 1 to July 31, 1898, subtracted 0.1 foot; August 1 to November 5, 1898, subtracted 0.2 foot; January 1 to January 20, 1900, subtracted 0.1 foot; January 21 to November 13, 1900, subtracted 0.2 foot; May 16 to November 15, 1901, subtracted 0.1 foot; November 16, 1901, to February 15, 1902, subtracted 0.2 foot; February 16 to May 6, 1902, subtracted 0.2 feet (below 7.58 feet); May 7 to August 23, 1902, subtracted 0.3 foot (below 7.58 feet); September 15 to November 5, 1904, added 0.4 foot.

The corrections subsequent to 1896 were made in the values published by the Mississippi River Commission, although some of the periods differ slightly from those noted above.

The gage heights between the inspections of May 18 and November 5, 1904, are open to question. The inspection record states: "November 5, 1904, gage found correct but could not be read below 2.0 feet because the paint was washed off. Temporary gage put in by observer 300 meters above permanent gage on railroad bridge has been read by him since June 19, 1904. Temporary gage set correctly but observer reported readings 0.4 foot too low." Records have been corrected as noted above, but it is not clear why September 15 was selected except that a sudden drop would otherwise appear in the record. Either the stated distance, 300 meters, is in error or the temporary gage was set to read same as the regular gage rather than at the same elevation. The inspection record further states that a new temporary section was set November 5 on right bank directly opposite the permanent gage.

Readings published by Mississippi River Commission October 2 to 7, 1908, should read —0.1 instead of 0.0 foot.

Control.—Rocky and probably permanent.

Discharge measurements.—Made by United States Geological Survey from downstream side of 17-span combined railway and highway bridge. Lower level is a through highway bridge and from this level the discharge measurements are now made. Several discharge measurements have been made about 2 miles downstream by the United States Engineer Corps.

Daily discharge.—Published for the years ending September 30, 1895-1915, computed from discharge rating table here included. Discharge prior to October 1, 1895, is withheld from publication because of the uncertainty as to the corrections necessary to the published gage heights to render the rating table applicable to them.

Discharge July to November, 1898, appears low as compared to Chattanooga, but since there is no other reason to question the re-

1 Stages of Mississippi river and of its principal tributaries for 1913.
2 Stages of Mississippi river and of its principal tributaries for 1903.

duction in daily gage height noted as the discharge has been computed from the gage heights as published by the Mississippi River Commission.

Discharge September to November, 1904, estimated by comparison with Chattanooga and Johnsonville because discharge computed from published gage heights seems too great as compared to these stations.

Discharge August 26 to September 10, 1911, seems low compared to the discharge at Chattanooga, the ratio for the period being 1.01. There is nothing in addition to this upon which to base a correction at Florence, and hence none has been made. The data for the period should, however, be used with caution.

Floods.—The highest flood on record at Florence occurred March 16-20, 1897, maximum stage 32.5 feet. The following tables gives hourly stages during the crest period of this flood:

Date.	Time.	Gage height.	Date.	Time.	Gage height.	Date.	Time.	Gage height.
Mar. 16	8 a. m.	23.9	Mar. 17	6 p. m.	25.2	Mar. 19	6 p. m.	32.3
	9 a. m.	24.0	Mar. 18	8 a. m.	25.8		9 p. m.	32.45
	10 a. m.	24.1		9 a. m.	26.0		10 p. m.	32.5
	11 a. m.	24.2		10 a. m.	26.1		12 p. m.	32.5
	12 m.	24.3		11 a. m.	26.2	Mar. 20	5 a. m.	32.0
	3 p. m.	24.4		12 m.	26.3		7 a. m.	31.7
	4 p. m.	24.5		3 p. m.	26.7		8 a. m.	31.6
	8 p. m.	24.6	Mar. 19	8 a. m.	31.1		9 a. m.	31.5
Mar. 17	8 a. m.	25.00		9 a. m.	31.2		10 a. m.	31.4
	9 a. m.	25.05		10 a. m.	31.5		11 a. m.	31.2
	10 a. m.	25.07		11 a. m.	31.6		12 m.	31.1
	11 a. m.	25.08		12 m.	31.7		1 p. m.	30.0
	12 m.	25.10		2 p. m.	31.8		2 p. m.	29.9
	3 p. m.	25.2		3 p. m.	32.0		3 p. m.	29.8
	4 p. m.	25.2		5 p. m.	32.2		4 p. m.	29.7

It is stated that during this flood 75 feet of levee near the bridge and the Memphis & Charleston Railroad approach was washed out, that 300 feet of the railroad track was inundated, and the water was 2½ feet deep in the railroad station, and that four bridges over tributaries between Florence and Riverton were washed out.

The flood of 1867 reached a stage of 31.1 feet at Florence, according to the United States Weather Buueau, and it is stated that the Memphis & Charleston Railroad station then had about 2.7 feet of water on the floor, and that a place known as Mound Garden had about 4 feet on the floor.

Winter flow.—Discharge relation not materially affected by ice.

Regulation.—Until November, 1913, there was very little artificial regulation of the flow at Florence. Filling of the reservoir behind the Hale's Bar dam of the Chattanooga & Tennessee River Power Co., about 175 miles above Florence, was begun about October 10, 1913.

Accuracy.—The accuracy ratings given in the tables of monthly discharge, especially for the earlier years, must not be considered to indicate as closely the probable reliability of the data as the accuracy ratings for the average gaging station. A low accuracy rating in the following tables does not signify that the mean discharge is known to be in error by the amount indicated, but rather that it appears from studies of the data and comparisons with other stations that the mean discharge is doubtful to that extent. The accuracy ratings will assist those using the data in determining by brief inspection whether certain portions of the record are considered sufficiently accurate for the purpose in hand or whether they require special investigation to more closely determine their probable reliability.

In marking the accuracy ratings considerable weight was given to the ratios of discharge at Chattanooga, Florence, and Johnsonville, especially the Chattanooga-Florence comparison.

The records presented in the following tables are believed to be as accurate and reliable as the obtainable base data will yield and they are believed to be free from gross errors.

Cooperation. The gage height record, as noted above, was furnished by the Mississippi River Commission. Discharge measurements prior to 1913 were made by the United States Engineer Corps.

Special acknowledgment is due to Maj. H. Burgess, Corps of Engineers, United States Army, Nashville, Tenn., and Mr. Kivas Tully, assistant engineer, Missippi River Commission, St. Louis, Mo., for assistance rendered in interpreting questionable portions of the data.

Discharge measurements of Tennessee River at Florence, Ala.

No.	Date.	Hydrographer.	Gage height.	Discharge.†
	1888			
21	Mar. 30	Lieut. H. E. Waterman‡	20.0	250,000
	1901			
20	Aug. 21	W. S. Winn‡	18.6	§252,000
15	Aug. 26	W. S. Winn‡	14.9	§168,000
14	Aug. 29	W. S. Winn‡	9.5	§ 92,800
13	Aug. 30	W. S. Winn‡	8.0	§ 78,000
5	Sept. 27	W. S. Winn‡	3.6	§ 36,000
	1908			
4	Sept. 25-26	F. I. Louckes‡	.2	12,000
	1913			
	Aug. 21	Warren E. Hall/	.55	13,500
	1914			
December 31		M. R. Hall	18.90	215,000
	1915			
January 1		M. R. Hall	17.90	199,000
February 12		M. R. Hall	8.80	84,300
February 16		M. R. Hall	6.55	62,000
September 12-13		Warren E. Hall	3.52	34,500
October 1		L. J. Hall	1.49	19,900
October 3		L. J. Hall	4.57	47,300
October 5		L. J. Hall	8.08	81,900
December 14		L. J. Hall	2.05	22,700

†Reduced to three significant figures. §Section at Sheffield Landing.
‡Corps of Engineers, U. S. Army. /U. S. Geological Survey.
Note.—See "Discharge measurements" in station description.

Discharge rating table for Tennessee River at Florence, Ala., from October 1, 1894, to September 30, 1913.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
—1.00	6,400	6.00	58,300	13.00	144,900	20.00	257,300
— .90	6,810	6.10	59,320	13.10	146,340	20.10	259,060
— .80	7,230	6.20	60,350	13.20	147,780	20.20	260,830
— .70	7,660	6.30	61,380	13.30	149,230	20.30	262,600
— .60	8,100	6.40	62,420	13.40	150,680	20.40	264,370
— .50	8,550	6.50	63,470	13.50	152,140	20.50	266,150
— .40	9,020	6.60	64,520	13.60	153,600	20.60	267,930
— .30	9,500	6.70	65,580	13.70	155,070	20.70	269,720
— .20	9,990	6.80	66,650	13.80	156,540	20.80	271,510
— .10	10,490	6.90	67,720	13.90	158,020	20.90	273,300
.00	11,000	7.00	68,800	14.00	159,500	21.00	275,100
.10	11,520	7.10	69,890	14.10	160,990	21.10	276,900
.20	12,050	7.20	70,990	14.20	162,480	21.20	278,710
.30	12,590	7.30	72,090	14.30	163,980	21.30	280,520
.40	13,140	7.40	73,200	14.40	165,480	21.40	282,330
.50	13,700	7.50	74,320	14.50	166,990	21.50	284,150
.60	14,280	7.60	75,440	14.60	168,500	21.60	285,970
.70	14,870	7.70	76,570	14.70	170,020	21.70	287,800
.80	15,470	7.80	77,710	14.80	171,540	21.80	289,630
.90	16,080	7.90	78,850	14.90	173,070	21.90	291,460
1.00	16,700	8.00	80,000	15.00	174,600	22.00	293,300
1.10	17,330	8.10	81,150	15.10	176,140	22.10	295,140
1.20	17,970	8.20	82,310	15.20	177,680	22.20	296,980
1.30	18,620	8.30	83,470	15.30	179,230	22.30	298,820
1.40	19,280	8.40	84,640	15.40	180,780	22.40	300,670
1.50	19,950	8.50	85,820	15.50	182,340	22.50	302,520
1.60	20,620	8.60	87,000	15.60	183,900	22.60	304,370
1.70	21,300	8.70	88,190	15.70	185,470	22.70	306,220
1.80	21,990	8.80	89,390	15.80	187,040	22.80	308,080
1.90	22,690	8.90	90,590	15.90	188,620	22.90	309,940
2.00	23,400	9.00	91,800	16.00	190,200	23.00	311,800
2.10	24,120	9.10	93,010	16.10	191,790	23.10	313,670
2.20	24,850	9.20	94,230	16.20	193,380	23.20	315,540
2.30	25,590	9.30	95,450	16.30	194,980	23.30	317,410
2.40	26,340	9.40	96,680	16.40	196,580	23.40	319,290
2.50	27,100	9.50	97,920	16.50	198,190	23.50	321,170
2.60	27,860	9.60	99,160	16.60	199,800	23.60	323,050
2.70	28,630	9.70	100,410	16.70	201,420	23.70	324,930
2.80	29,410	9.80	101,670	16.80	203,040	23.80	326,820
2.90	30,200	9.90	102,930	16.90	204,670	23.90	328,710
3.00	31,000	10.00	104,200	17.00	206,300	24.00	330,600
3.10	31,810	10.10	105,470	17.10	207,940	24.10	332,500
3.20	32,630	10.20	106,750	17.20	209,580	24.20	334,400
3.30	33,450	10.30	108,030	17.30	211,230	24.30	336,300
3.40	34,280	10.40	109,320	17.40	212,880	24.40	338,210
3.50	35,120	10.50	110,620	17.50	214,540	24.50	340,120
3.60	35,960	10.60	111,920	17.60	216,200	24.60	342,030
3.70	36,810	10.70	113,230	17.70	217,870	24.70	343,940
3.80	37,670	10.80	114,550	17.80	219,540	24.80	345,860
3.90	38,530	10.90	115,870	17.90	221,220	24.90	347,780
4.00	39,400	11.00	117,200	18.00	222,900	25.00	349,700
4.10	40,280	11.10	118,540	18.10	224,580	25.10	351,620
4.20	41,170	11.20	119,880	18.20	226,270	25.20	353,540
4.30	42,060	11.30	121,230	18.30	227,960	25.30	355,470
4.40	42,960	11.40	122,580	18.40	229,650	25.40	357,400
4.50	43,870	11.50	123,940	18.50	231,350	25.50	359,330
4.60	44,780	11.60	125,300	18.60	233,050	25.60	361,260
4.70	45,700	11.70	126,670	18.70	234,760	25.70	363,190
4.80	46,630	11.80	128,040	18.80	236,470	25.80	365,120
4.90	47,560	11.90	129,420	18.90	238,180	25.90	367,060
5.00	48,500	12.00	130,800	19.00	239,900	26.00	369,000
5.10	49,450	12.10	132,190	19.10	241,620	26.10	370,940
5.20	50,410	12.20	133,580	19.20	243,350	26.20	372,880
5.30	51,370	12.30	134,980	19.30	245,080	26.30	374,820
5.40	52,340	12.40	136,380	19.40	246,810	26.40	376,770
5.50	53,320	12.50	137,790	19.50	248,550	26.50	378,720
5.60	54,300	12.60	139,200	19.60	250,290	26.60	380,670
5.70	55,290	12.70	140,620	19.70	252,040	26.70	382,620
5.80	56,290	12.80	142,040	19.80	253,790	26.80	384,580
5.90	57,290	12.90	143,470	19.90	255,540	26.90	386,540

Discharge rating table for Tennessee River at Florence, Ala., from October 1, 1894, to September 30, 1913—Continued.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
27.00	388,500	29.60	440,180	32.20	493,120	34.80	547,220
27.10	390,460	29.70	442,140	32.30	495,190	34.90	549,310
27.20	392,420	29.80	444,160	32.40	497,260	35.00	551,400
27.30	394,380	29.90	446,180	32.50	499,330	35.10	553,500
27.40	396,350	30.00	448,200	32.60	501,400	35.20	555,600
27.50	398,320	30.10	450,220	32.70	503,470	35.30	557,700
27.60	400,290	30.20	452,240	32.80	505,540	35.40	559,800
27.70	402,260	30.30	454,260	32.90	507,620	35.50	561,900
27.80	404,240	30.40	456,290	33.00	509,700	35.60	564,000
27.90	406,220	30.50	458,320	33.10	511,780	35.70	566,100
28.00	408,200	30.60	460,350	33.20	513,860	35.80	568,200
28.10	410,180	30.70	462,380	33.30	515,940	35.90	570,300
28.20	412,160	30.80	464,420	33.40	518,020	36.00	572,400
28.30	414,140	30.90	466,460	33.50	520,100	36.10	574,510
28.40	416,130	31.00	468,500	33.60	522,180	36.20	576,620
28.50	418,120	31.10	470,540	33.70	524,260	36.30	578,730
28.60	420,110	31.20	472,580	33.80	526,340	36.40	580,840
28.70	422,100	31.30	474,620	33.90	528,420	36.50	582,950
28.80	424,100	31.40	476,670	34.00	530,500	36.60	585,060
28.90	426,100	31.50	478,720	34.10	532,590	36.70	587,170
29.00	428,100	31.60	480,770	34.20	534,680	36.80	589,280
29.10	430,100	31.70	482,820	34.30	536,770	36.90	591,390
29.20	432,100	31.80	484,880	34.40	538,860	37.00	593,500
29.30	434,100	31.90	486,940	34.50	540,950	38.00	614,700
29.40	436,110	32.00	489,000	34.60	543,040	39.00	636,000
29.50	438,120	32.10	491,060	34.70	545,130	40.00	657,400

Note.—The above table is not applicable for periods during which ice was present or channel was obstructed. It is based on eight discharge measurements listed in the table on page 157 and upon the other discharge figures listed in the lower table on page 157. The rating table is well defined between discharges 11,000 and 275,000 second-feet (gage heights 0.0 and 21.0 feet.) Use this table to three significant figures only.

Rating table for Tennessee River at Florence, Ala., from October 1, 1913, to September 30, 1915.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
—1.00	6,650	4.30	42,000	9.60	95,000	14.90	164,400
— .90	7,000	4.40	42,850	9.70	96,200	15.00	165,900
— .80	7,350	4.50	43,700	9.80	97,400	15.10	167,400
— .70	7,750	4.60	44,550	9.90	98,600	15.20	168,900
— .60	8,150	4.70	45,400	10.00	99,800	15.30	170,400
— .50	8,550	4.80	46,250	10.10	101,000	15.40	171,900
— .40	8,950	4.90	47,100	10.20	102,200	15.50	173,400
— .30	9,400	5.00	48,000	10.30	103,400	15.60	174,900
— .20	9,850	5.10	48,900	10.40	104,600	15.70	176,400
— .10	10,300	5.20	49,800	10.50	105,800	15.80	177,900
.00	10,800	5.30	50,700	10.60	107,000	15.90	179,400
.10	11,300	5.40	51,600	10.70	108,200	16.00	180,900
.20	11,800	5.50	52,500	10.80	109,400	16.10	182,400
.30	12,300	5.60	53,400	10.90	110,600	16.20	183,900
.40	12,800	5.70	54,300	11.00	111,800	16.30	185,400
.50	13,350	5.80	55,200	11.10	113,100	16.40	186,900
.60	13,900	5.90	56,100	11.20	114,400	16.50	188,400
.70	14,500	6.00	57,000	11.30	115,700	16.60	189,900
.80	15,100	6.10	57,900	11.40	117,000	16.70	191,400
.90	15,700	6.20	58,800	11.50	118,300	16.80	192,900
1.00	16,300	6.30	59,700	11.60	119,600	16.90	194,400
1.10	16,900	6.40	60,600	11.70	120,900	17.00	195,900
1.20	17,500	6.50	61,500	11.80	122,200	17.10	197,400
1.30	18,150	6.60	62,400	11.90	123,500	17.20	198,900
1.40	18,800	6.70	63,300	12.00	124,800	17.30	200,400
1.50	19,500	6.80	64,300	12.10	126,100	17.40	201,900
1.60	20,200	6.90	65,300	12.20	127,400	17.50	203,500
1.70	20,900	7.00	66,300	12.30	128,700	17.60	205,100
1.80	21,600	7.10	67,300	12.40	130,000	17.70	206,700
1.90	22,350	7.20	68,300	12.50	131,300	17.80	208,300
2.00	23,100	7.30	69,300	12.60	132,600	17.90	209,900
2.10	23,850	7.40	70,300	12.70	133,900	18.00	211,500
2.20	24,600	7.50	71,300	12.80	135,200	18.10	213,100
2.30	25,350	7.60	72,300	12.90	136,500	18.20	214,700
2.40	26,100	7.70	73,300	13.00	137,800	18.30	216,300
2.50	26,900	7.80	74,400	13.10	139,100	18.40	217,900
2.60	27,700	7.90	75,500	13.20	140,400	18.50	219,500
2.70	28,500	8.00	76,600	13.30	141,800	18.60	221,100
2.80	29,300	8.10	77,700	13.40	143,200	18.70	222,700
2.90	30,100	8.20	78,800	13.50	144,600	18.80	224,300
3.00	30,950	8.30	79,900	13.60	146,000	18.90	225,900
3.10	31,800	8.40	81,000	13.70	147,400	19.00	227,500
3.20	32,650	8.50	82,100	13.80	148,800	19.10	229,100
3.30	33,500	8.60	83,200	13.90	150,200	19.20	230,700
3.40	34,350	8.70	84,300	14.00	151,600	19.30	232,300
3.50	35,200	8.80	85,400	14.10	153,000	19.40	233,900
3.60	36,050	8.90	86,600	14.20	154,400	19.50	235,500
3.70	36,900	9.00	87,800	14.30	155,800	19.60	237,100
3.80	37,750	9.10	89,000	14.40	157,200	19.70	238,700
3.90	38,600	9.20	90,200	14.50	158,600	19.80	240,400
4.00	39,450	9.30	91,400	14.60	160,000	19.90	242,100
4.10	40,300	9.40	92,600	14.70	161,400	20.00	243,800
4.20	41,150	9.50	93,800	14.80	162,900		

Daily gage height, in feet, of Tennessee River at Florence, Ala.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1872												
1	.....	.....	1.2	1.9	1.9	3.3	4.6	3.8	2.4	4.0	1.0	0.3
2	.....	.....	1.2	2.6	2.0	3.2	4.3	3.5	2.2	3.4	1.0	.3
3	.....	.....	1.3	3.3	1.8	3.2	4.0	3.3	1.9	2.8	.9	.3
4	.....	.....	1.3	4.5	1.5	3.4	3.7	3.0	1.5	2.2	.7	.3
5	.....	.....	1.2	5.8	1.3	3.7	3.7	2.9	1.2	1.8	.5	.4
6	.....	.....	1.3	6.2	1.7	4.0	4.1	2.7	1.0	1.5	.4	.4
7	.....	2.5	1.2	6.1	1.9	4.2	5.2	2.6	.8	1.3	.3	.2
8	.....	2.2	1.1	5.9	2.9	4.5	6.2	2.5	.8	1.2	.2	.1
9	.....	2.0	1.0	5.5	3.2	4.8	9.7	2.4	.7	1.3	.2	.0
10	.....	1.7	.9	5.0	3.5	5.5	11.3	2.2	2.8	1.2	.2	— .1
11	.....	1.4	.8	4.5	4.0	5.6	10.9	2.0	4.0	1.0	.2	— .3
12	.....	1.2	.6	4.1	4.4	6.5	10.3	1.8	3.4	.9	.4	— .3
13	.....	1.0	.6	3.6	4.6	8.4	11.0	1.7	2.8	1.0	.2	— .5
14	.....	.9	.6	3.2	4.6	9.4	11.5	1.5	3.3	7.7	.2	— .5
15	.....	.7	.6	3.0	4.7	9.9	10.9	1.4	4.3	10.8	.3	— .5
16	.....	.7	.6	2.7	4.6	9.5	10.4	1.3	4.0	9.6	.3	— .4
17	.....	.9	.5	2.4	4.5	8.4	9.7	1.3	3.6	7.5	.4	— .4
18	.....	1.3	.5	2.2	5.0	7.2	9.2	1.2	3.0	5.9	.4	— .2
19	.....	1.8	.3	2.2	5.5	6.6	8.6	1.2	2.5	5.3	.4	— .1
20	.....	1.8	.2	1.8	6.1	6.2	8.0	1.1	2.0	6.5	1.4	.0
21	.....	1.8	.2	1.8	6.4	6.1	7.2	1.1	1.6	5.9	2.7	— .1
22	.....	1.8	.2	1.8	5.8	5.9	6.8	1.1	1.4	5.2	2.7	— .2
23	.....	1.5	.4	1.8	5.3	5.4	6.8	1.1	1.3	4.5	2.6	— .3
24	.....	1.4	.2	1.8	4.8	5.2	7.6	1.3	1.1	3.7	2.5	— .4
25	.....	1.1	.3	1.9	4.3	5.2	7.8	3.2	1.0	3.1	2.0	— .2
26	.....	1.0	.4	1.8	4.0	5.4	7.0	3.8	.8	2.6	1.5	— .4
27	.....	1.0	.5	1.8	3.8	5.8	6.0	3.3	.6	2.3	1.1	— .5
28	.....	.9	.7	1.6	3.5	5.9	5.2	2.9	1.0	2.0	.8	— .2
29	.....	.9	1.3	1.3	3.3	5.6	4.6	2.8	3.1	1.7	.6	— .2
30	.....	1.1	1.6	1.7	.....	5.3	4.2	2.6	4.0	1.4	.4	.0
31	.....	.....	1.8	1.7	.....	4.9	.....	2.5	.....	1.2	.3	.....
1873												
1	0.0	— .4	.5	6.1	7.0	18.6	12.5	3.6	3.7	3.7	1.0	1.0
2	— .2	— .3	.6	5.6	6.3	16.8	12.4	3.0	3.6	3.6	1.3	.9
3	— .1	— .3	.8	5.4	5.8	15.5	11.9	7.6	3.6	4.3	1.3	.7
4	.1	— .3	.8	6.2	5.4	13.9	10.2	7.0	3.7	6.1	1.2	.6
5	.2	— .4	.6	6.6	5.0	12.1	10.7	7.5	3.6	6.4	1.2	.7
6	.1	— .4	.6	7.9	5.1	10.4	9.8	7.2	3.4	5.7	1.3	.8
7	.0	— .4	.5	8.8	7.5	9.1	8.8	6.6	3.2	4.8	1.2	.6
8	— .2	— .4	.5	9.2	9.4	8.2	7.8	6.4	2.9	4.0	1.0	.5
9	— .1	— .3	.4	9.1	11.9	7.5	7.1	6.4	3.2	3.6	.8	.5
10	— .2	— .3	.3	8.4	13.4	7.0	6.6	6.9	3.6	3.8	.7	.6
11	— .4	— .2	.3	7.6	14.2	6.6	6.2	8.0	3.7	3.7	.6	.5
12	— .5	.3	.3	6.8	17.0	6.4	5.8	9.4	3.8	3.3	.6	.4
13	— .5	.8	.3	6.1	19.2	6.4	5.6	10.4	4.4	2.7	.5	.3
14	— .5	1.2	.2	5.4	19.3	6.3	5.4	10.5	4.4	2.3	.6	.2
15	— .4	1.5	.1	5.0	18.6	6.4	5.2	9.6	4.6	1.9	.5	.2
16	— .4	1.4	.2	4.7	19.8	6.5	5.0	8.0	5.8	1.6	.5	.1
17	— .4	1.0	.0	4.5	20.6	6.5	4.7	6.7	5.7	1.6	.5	.0
18	— .5	.6	.5	4.6	20.6	6.3	4.5	5.8	6.4	1.6	.6	— .1
19	— .6	.4	1.2	4.6	21.0	6.0	4.3	5.2	6.2	1.4	.7	.2
20	— .6	.3	4.0	4.7	22.2	6.3	4.2	4.7	5.4	1.2	1.0	— .1
21	— .7	.3	11.9	5.4	22.6	7.8	4.1	4.3	4.8	1.2	1.0	— .1
22	— .7	.2	15.2	6.2	22.9	8.5	4.0	3.9	4.4	1.1	1.0	— .2
23	— .7	.1	15.8	6.8	22.7	8.9	4.0	3.6	3.8	1.2	.7	.0
24	— .8	.0	16.2	7.4	22.2	9.0	3.8	3.4	3.4	1.5	.8	— .2
25	— .7	.0	16.4	9.1	21.7	8.7	3.6	3.5	3.6	1.6	1.0	— .2
26	— .8	.3	15.9	10.2	21.0	9.6	3.4	4.0	4.0	1.5	1.2	— .2
27	— .8	.1	13.8	10.4	20.8	9.8	3.2	4.7	3.6	1.4	1.3	— .2
28	— .8	.5	10.6	10.2	20.0	9.2	3.2	5.1	3.5	1.0	1.3	— .2
29	— .8	.4	8.2	9.5	.....	10.0	3.0	5.0	3.8	.8	1.2	— .2
30	— .7	.4	7.3	8.7	.....	11.4	2.9	4.5	3.8	.8	1.1	— .1
31	— .6	.....	6.6	7.8	.....	12.1	.....	4.1	.....	.8	1.0	.....

Daily gage height, in feet, of Tennessee River at Florence, Ala.—Continued.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1874												
1	—0.0	1.7	5.2	3.4	9.0	9.5	9.4	20.0	2.9	0.9	3.6	7.5
2	— .0	2.2	4.6	3.2	9.0	11.8	9.2	20.0	2.7	1.0	5.0	10.4
3	— .1	1.9	3.8	3.0	8.4	12.2	8.5	20.0	2.6	1.4	5.4	10.4
4	.1	1.6	3.6	2.9	7.7	12.2	7.7	20.2	2.5	1.5	5.1	8.3
5	.4	1.4	4.2	3.0	7.0	12.2	7.0	19.8	2.4	1.5	4.2	6.0
6	.5	1.2	3.7	3.8	6.5	12.2	6.4	19.2	2.6	1.4	3.2	4.5
7	.3	.9	4.7	5.6	6.2	13.5	6.4	17.9	2.8	1.2	2.5	3.6
8	.1	.7	6.9	7.6	6.1	12.6	8.6	16.7	2.7	1.2	2.0	2.9
9	— .1	.6	6.8	9.0	5.9	11.5	14.7	15.6	2.7	1.0	1.5	2.3
10	— .2	.5	6.2	10.8	5.7	10.6	16.0	14.5	2.6	.8	1.2	1.8
11	— .3	.4	6.2	11.2	5.4	10.1	17.6	13.0	2.7	.7	1.2	1.4
12	— .4	.3	6.2	10.5	5.0	9.4	17.2	11.0	2.9	.6	1.7	1.2
13	— .4	.3	6.1	9.5	4.8	8.5	16.7	9.2	2.5	.9	2.1	1.0
14	— .4	.3	6.0	8.6	5.6	7.6	17.6	8.0	2.4	1.2	1.7	.8
15	— .3	.2	5.6	8.2	6.8	6.8	22.1	7.1	2.5	1.0	1.2	.6
16	— .3	.3	5.0	7.6	7.0	6.8	25.7	6.5	3.0	.8	.9	.5
17	— .3	.2	4.8	7.0	7.6	7.3	26.0	6.0	3.4	1.0	.8	.6
18	— .4	.9	4.6	6.6	9.1	7.4	25.2	5.6	3.7	1.2	.6	.6
19	— .2	.8	4.5	6.0	10.2	8.0	23.9	5.3	3.4	1.3	.4	.4
20	— .4	.9	4.2	5.5	10.2	9.8	23.3	5.0	2.9	1.5	.2	.3
21	— .4	2.4	3.9	4.9	9.8	12.8	22.9	4.7	2.6	1.4	.1	.4
22	— .4	4.9	3.6	4.5	9.2	15.5	22.4	4.4	2.3	1.2	.1	.6
23	— .4	4.9	3.7	4.3	9.6	17.9	23.6	4.2	2.0	1.1	.1	.9
24	— .2	5.9	4.6	5.2	8.8	18.4	24.2	3.9	1.7	.9	.0	1.1
25	— .2	6.8	4.6	5.8	7.6	17.9	23.5	3.7	1.5	.8	.0	1.2
26	.0	5.4	4.6	6.4	7.1	17.6	22.8	3.5	1.3	.8	.2	1.2
27	1.4	4.4	4.8	7.2	7.0	17.2	21.9	3.4	1.2	.7	.2	1.4
28	2.6	5.2	4.8	7.7	7.7	16.0	20.9	3.2	1.1	.8	.5	1.8
29	1.6	5.8	4.5	8.0	.....	13.8	20.2	3.2	1.0	1.2	1.2	2.2
30	1.0	5.5	4.1	8.0	.....	11.6	20.0	3.1	.9	1.7	2.6	2.0
31	.9	.....	3.8	8.4	.....	9.7	.....	3.0	.....	2.4	4.0	.....
1875												
1	1.6	.2	4.9	3.9	17.0	24.4	16.7	10.0	2.6	2.8	4.8	2.3
2	1.4	.2	4.9	4.3	17.1	26.4	15.4	11.8	2.4	2.9	3.9	2.0
3	1.6	.1	5.9	5.6	17.8	27.6	15.4	12.3	2.2	2.8	3.4	1.7
4	2.1	.1	6.0	6.8	18.9	28.1	15.2	12.8	2.0	3.1	3.0	1.4
5	2.6	.1	5.6	8.8	18.2	28.7	15.1	11.5	2.0	3.1	3.0	1.3
6	2.9	.1	5.0	9.9	16.4	29.0	15.1	10.0	2.1	3.0	3.6	1.2
7	2.7	.1	4.3	10.1	13.4	29.3	14.8	8.3	2.3	2.8	3.7	1.1
8	2.0	.0	3.8	9.8	10.2	29.4	14.1	7.4	2.7	2.8	4.2	1.0
9	1.5	.0	3.3	8.8	8.2	28.8	12.9	6.6	3.1	3.0	4.0	.9
10	1.1	.0	3.0	7.7	7.0	28.0	11.4	6.2	3.0	3.0	3.4	.8
11	.8	.1	2.7	6.6	6.4	26.8	11.2	6.0	3.0	3.4	3.0	.8
12	.6	.2	2.6	6.1	6.4	25.5	11.6	5.6	3.0	3.5	2.8	.8
13	.6	.7	2.5	5.5	6.3	24.0	11.0	5.3	3.0	3.7	2.4	.8
14	.6	.8	2.4	5.2	6.2	22.2	10.9	5.0	2.8	4.2	2.2	.6
15	.5	1.5	2.3	4.9	7.7	20.2	10.8	4.8	2.5	6.2	2.2	.7
16	.4	2.2	2.3	4.7	8.5	18.9	10.1	4.5	2.2	6.5	3.2	.7
17	.4	2.3	2.2	4.4	8.7	16.8	9.2	4.2	1.9	7.8	4.7	1.2
18	.3	2.1	2.1	4.2	8.5	16.0	8.3	4.0	1.6	10.1	5.4	1.8
19	.2	1.8	2.0	4.0	7.8	15.8	7.5	3.7	1.5	11.0	6.8	6.4
20	.2	1.5	2.3	3.8	7.0	16.9	6.9	3.5	1.5	10.2	7.6	7.9
21	.1	1.2	3.4	3.5	6.7	20.9	6.6	3.4	1.7	8.2	7.6	7.5
22	.3	1.2	4.3	3.3	6.6	22.2	6.9	3.3	2.1	6.4	7.0	8.5
23	.8	1.3	5.9	3.1	6.7	22.1	6.8	3.2	2.3	5.6	6.1	8.0
24	1.3	2.6	6.5	3.4	11.6	21.8	6.3	3.1	2.2	5.0	5.1	6.4
25	1.4	3.0	6.4	5.0	20.0	21.1	6.2	3.0	2.3	4.8	4.2	4.9
26	1.2	4.9	6.0	6.2	22.9	21.0	6.4	3.0	2.7	5.8	3.5	3.9
27	1.0	6.8	5.4	7.6	24.0	21.6	7.5	2.9	3.0	7.3	3.0	3.3
28	.8	7.0	4.9	8.0	24.3	22.3	8.0	3.0	3.0	7.9	2.8	2.8
29	.6	6.8	4.4	11.9	.....	22.6	7.6	2.9	2.9	7.4	2.7	2.5
30	.5	5.8	4.0	14.6	.....	21.1	7.6	2.7	3.7	6.8	2.7	2.2
31	.3	.....	3.8	17.0	.....	18.6	.....	2.7	.....	5.8	2.5	.....

Daily gage height, in feet, of Tennessee River at Florence, Ala.—Continued.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1876												
1	2.0	0.4	5.3	18.9	9.9	5.7	11.8	4.6	7.4	5.0	1.8	0.8
2	1.8	.4	5.1	19.2	11.1	5.3	14.8	7.5	6.9	4.8	1.6	.8
3	1.7	.4	4.8	19.7	11.9	5.1	15.1	12.2	6.2	4.4	1.7	.7
4	1.6	.3	4.6	19.8	11.9	4.8	14.6	13.1	5.8	4.0	2.2	.6
5	1.5	1.0	4.6	19.0	11.9	4.6	13.5	13.0	5.5	4.0	3.6	.6
6	1.4	1.4	5.4	16.8	11.3	4.3	12.0	12.8	5.2	4.6	3.2	.7
7	1.3	1.8	7.0	13.4	10.6	4.3	10.4	11.6	5.4	5.2	3.1	.8
8	1.3	2.0	8.4	10.2	9.5	4.1	8.9	11.3	5.5	5.2	3.1	.7
9	1.4	2.7	8.9	8.2	8.7	4.2	7.8	11.7	5.5	5.0	3.4	.5
10	2.2	3.3	8.5	7.0	8.2	4.1	7.1	12.5	5.2	4.8	3.7	.4
11	3.0	4.1	8.0	6.4	8.1	4.3	6.5	13.0	4.7	4.6	3.3	.2
12	2.8	4.6	7.5	5.9	8.0	5.4	6.0	13.6	4.1	4.1	3.0	.2
13	2.4	4.7	7.0	5.4	8.0	6.0	5.6	13.7	3.6	4.0	2.7	.2
14	1.9	4.9	6.6	5.2	8.9	5.8	5.7	13.2	3.7	3.6	2.9	.2
15	1.7	5.7	6.0	4.9	10.4	5.5	6.1	12.1	3.7	3.2	2.8	.3
16	1.4	6.0	5.5	4.5	10.7	5.8	6.6	10.2	3.5	2.9	2.5	.4
17	1.2	5.8	5.0	4.4	11.5	11.7	7.6	8.6	3.5	3.0	2.1	.4
18	1.1	5.4	4.5	4.4	12.4	14.1	9.0	7.6	3.2	2.7	1.8	.4
19	1.0	5.2	4.0	7.2	13.1	14.8	8.9	6.3	4.5	2.6	1.8	.3
20	.9	5.1	3.7	7.4	13.1	15.2	8.2	6.1	9.5	2.7	1.8	.3
21	.9	4.7	3.4	7.5	12.2	14.7	7.5	5.6	11.4	2.6	1.7	.3
22	.8	4.2	3.2	9.2	10.4	13.7	6.9	5.3	12.4	2.6	1.6	.2
23	.8	4.1	3.0	10.0	8.8	12.0	6.4	5.4	12.4	2.9	1.5	.2
24	.7	4.3	2.9	10.2	7.8	10.8	5.9	5.2	10.4	2.8	1.4	.2
25	.7	5.3	4.5	9.8	7.4	11.3	5.4	5.0	7.8	2.8	1.2	.4
26	.7	5.3	7.0	9.0	7.0	11.9	5.0	4.9	6.4	2.8	1.1	.5
27	.6	5.4	7.2	9.0	6.8	12.1	4.7	5.0	5.6	2.6	1.0	.4
28	.5	5.7	9.8	9.9	6.4	12.8	4.6	5.1	5.0	2.3	.9	.4
29	.5	5.6	14.2	10.3	6.0	13.0	4.3	5.3	5.3	2.3	.9	.6
30	.6	5.4	17.8	10.6	.....	12.6	4.2	5.6	5.2	2.8	.9	.9
31	.4	.....	19.0	9.9	.....	12.0	.....	6.6	.....	2.0	.8	.....
1877												
1	1.0	.4	1.0	.9	5.6	1.5	10.2	13.2	1.6	1.5	1.8	.4
2	.8	.3	.8	1.0	5.0	1.6	10.3	12.0	1.6	1.5	1.5	.2
3	.6	.0	.6	.7	4.5	1.8	10.6	10.4	1.5	1.8	1.2	.1
4	.4	.0	.5	.7	4.3	2.1	9.2	8.8	1.4	1.9	1.0	.0
5	.3	— .1	.5	.4	5.0	2.4	8.9	7.8	1.3	1.7	.7	.2
6	.2	— .2	.6	.6	6.1	3.0	8.8	7.1	1.2	1.4	.6	.6
7	.0	— .2	.6	.4	5.6	3.6	8.3	6.4	1.1	1.2	.6	1.3
8	.0	— .3	.4	.4	5.2	3.6	13.9	6.0	1.2	1.0	.7	1.0
9	.0	— .2	.2	.2	4.7	3.5	17.8	5.9	2.0	.9	.5	.7
10	— .1	— .2	.2	.7	4.2	4.4	19.4	5.8	3.2	.7	.6	.7
11	— .1	— .2	.1	2.4	3.8	5.7	19.2	5.7	2.8	.6	.4	1.0
12	— .2	— .2	.1	3.2	3.5	7.8	17.9	5.7	2.4	.7	.2	1.0
13	— .2	— .2	.1	3.6	3.2	9.6	17.7	5.9	2.0	.8	.1	.8
14	— .2	— .3	.0	3.9	3.0	10.1	17.9	6.0	1.9	.6	.1	.7
15	— .4	— .3	— .1	4.2	2.8	9.8	17.8	5.8	2.3	.5	.1	1.0
16	— .5	— .3	— .2	6.1	2.7	8.9	17.1	5.2	3.8	.6	.1	1.2
17	— .5	— .2	— .2	8.8	2.5	8.5	15.9	4.8	5.0	1.1	.0	1.0
18	— .5	— .3	.0	10.7	2.3	8.3	14.5	4.3	3.9	1.1	.0	.7
19	— .5	— .3	.0	12.4	2.2	8.0	13.6	4.0	3.6	3.9	.1	.4
20	— .5	— .4	.2	13.4	2.0	7.4	12.1	3.7	3.0	3.2	.3	3.2
21	— .6	— .2	.4	15.0	1.9	6.9	10.4	3.5	2.6	2.1	.3	4.2
22	— .3	— .3	.3	15.4	1.8	6.6	9.7	3.3	2.5	1.5	.4	3.4
23	— .2	— .2	.2	15.6	1.8	6.4	9.8	3.1	2.4	1.5	.6	2.2
24	— .2	— .1	.3	15.7	1.6	6.0	10.2	2.9	2.4	2.2	.4	1.8
25	— .2	.0	.3	15.8	1.6	5.8	10.4	2.7	2.6	3.0	.5	1.7
26	— .2	.2	.2	15.8	1.5	5.8	10.0	2.6	3.0	3.1	.3	1.5
27	— .1	.4	.3	15.2	1.5	6.0	11.0	2.4	2.9	3.2	.1	1.3
28	.6	.8	.5	13.4	1.5	6.2	14.7	2.3	2.4	3.3	.0	1.1
29	.9	1.3	.8	10.4	.....	7.1	15.5	2.1	2.0	3.0	.1	1.3
30	.7	1.2	.6	7.9	.....	8.7	14.5	1.9	1.7	2.7	.4	2.0
31	.4	.....	.9	6.4	.....	10.0	.....	1.8	.....	2.3	.5	.....

Daily gage height, in feet, of Tennessee River at Florence, Ala.—Continued.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1878												
1	2.0	1.4	8.2	9.3	7.0	10.2	4.6	7.0	2.2	0.8	—0.2	0.5
2	1.5	2.4	6.8	8.8	8.9	8.5	4.2	6.3	2.3	.7	— .3	.9
3	1.1	5.4	5.6	8.2	9.3	7.2	3.9	5.6	2.3	1.2	.0	1.4
4	.6	5.3	4.9	8.1	9.7	6.6	3.7	5.1	2.2	1.5	.6	1.5
5	.4	6.6	4.3	8.0	8.8	6.2	3.5	4.8	2.1	1.1	1.1	1.4
6	.2	6.7	3.9	7.3	7.6	5.8	3.4	4.6	1.7	1.2	1.1	1.3
7	.1	6.4	3.9	6.4	6.8	5.8	3.3	4.5	1.5	1.2	1.0	1.1
8	.2	5.4	4.4	5.8	6.1	5.9	3.3	4.4	1.3	1.0	.8	1.0
9	.4	4.8	4.9	5.1	5.8	5.8	3.5	4.5	1.4	.9	.6	.6
10	1.3	4.4	5.2	4.6	6.4	5.5	3.8	4.8	1.4	1.0	.3	.3
11	2.1	4.0	4.9	4.5	7.0	5.4	3.8	5.0	1.4	.8	.1	.0
12	2.0	3.5	4.5	4.7	8.2	5.7	3.8	4.8	1.2	.5	.0	— .2
13	1.7	3.3	4.0	5.3	9.1	7.3	4.4	4.4	1.3	.6	.0	— .3
14	1.5	3.4	3.6	6.7	9.1	7.8	5.2	4.1	1.4	.6	— .1	— .4
15	1.2	3.8	3.3	8.3	8.5	7.4	5.6	3.7	1.4	.6	— .2	— .5
16	1.1	4.0	3.0	9.1	7.6	7.4	5.6	3.4	1.6	.5	— .2	— .6
17	.9	4.0	2.8	8.8	7.0	7.7	5.2	3.2	1.8	.4	— .2	— .7
18	.7	3.3	2.6	8.0	6.5	7.8	4.7	3.0	2.2	.3	.0	— .8
19	.6	2.9	2.4	7.1	6.1	7.3	4.3	3.0	2.4	.3	.4	5.0
20	.5	2.7	2.2	6.6	5.8	6.5	6.4	2.8	1.9	.4	1.1	4.1
21	.8	3.0	2.0	6.3	6.2	5.7	7.8	2.8	1.7	.3	1.3	2.9
22	1.3	4.0	2.0	5.9	9.0	5.1	7.3	3.1	1.4	.2	1.0	1.9
23	1.4	4.3	1.8	5.4	9.7	4.6	6.7	3.8	1.2	.1	.8	1.4
24	1.3	5.0	2.3	5.0	9.9	4.3	10.2	4.5	1.0	.0	.5	1.0
25	1.3	5.7	5.6	4.8	10.3	4.0	12.2	4.1	1.0	.0	.2	1.2
26	1.5	6.2	5.2	4.9	11.6	3.7	13.6	3.9	.9	— .1	.2	.8
27	1.6	6.9	5.1	5.0	12.2	3.4	12.8	3.1	1.0	— .2	1.2	.4
28	1.7	8.8	5.9	5.0	11.8	3.7	11.1	2.8	1.0	— .2	1.2	.2
29	1.5	9.6	6.7	5.4	.....	5.0	9.2	2.4	1.0	— .1	1.0	.2
30	1.4	9.2	8.0	5.4	.....	5.5	7.8	2.2	.8	— .2	.6	.1
31	1.4	.....	9.4	5.4	.....	5.0	.....	2.2	.....	— .2	.5	.....
1879												
1	.0	2.0	11.4	4.1	9.4	9.9	5.5	3.4	1.5	.2	.3	2.3
2	— .1	1.5	11.4	4.0	9.6	9.2	5.3	3.2	1.5	.2	.5	2.2
3	— .1	1.2	11.3	4.6	9.7	8.6	5.5	3.0	1.5	.2	.5	3.6
4	— .2	1.0	10.7	4.9	9.8	8.3	6.0	2.9	1.8	.1	1.2	2.2
5	— .4	1.1	10.0	5.3	10.0	7.6	6.3	2.9	1.6	.2	1.9	2.0
6	— .5	1.1	8.9	5.2	11.2	6.9	6.4	2.7	1.5	.2	2.1	1.9
7	— .4	1.1	8.0	5.1	10.5	6.2	6.1	2.6	1.4	.2	2.4	1.5
8	— .4	1.0	7.2	4.2	10.2	5.6	5.5	2.5	1.3	.2	2.6	1.2
9	— .5	.8	7.0	5.3	10.0	5.2	5.1	2.4	1.2	.1	2.5	1.0
10	— .4	.7	8.9	8.8	9.6	4.8	5.3	3.4	1.1	.1	2.0	1.0
11	— .3	.5	9.1	10.8	9.4	4.6	7.4	3.7	1.0	.1	1.6	1.0
12	— .3	.3	8.8	14.4	9.4	4.3	8.0	3.4	.9	.0	1.3	.8
13	— .3	.2	8.6	19.3	8.7	4.2	8.1	2.9	.8	.0	1.2	.8
14	— .2	.2	8.7	20.0	7.8	4.0	7.9	3.0	.8	.0	1.2	.6
15	— .1	.0	8.2	19.5	7.2	3.8	7.5	3.1	.8	.0	1.1	.4
16	— .1	.0	8.2	19.4	6.8	3.8	7.2	3.0	1.0	.0	1.0	.2
17	.1	— .1	8.3	19.8	6.7	4.0	7.4	4.0	1.1	.0	.8	.2
18	— .1	— .1	8.4	20.4	10.1	4.6	7.5	3.6	1.1	.0	.7	.1
19	.0	.0	8.4	21.4	12.1	4.8	7.4	3.4	1.1	.3	.4	.0
20	.0	.0	8.0	21.4	13.1	4.5	7.2	3.4	1.0	.2	.4	.0
21	.0	.1	7.5	20.4	13.7	5.2	6.8	3.6	1.0	.2	.6	.0
22	.0	.0	6.8	17.8	13.6	6.9	6.4	3.8	.8	.2	1.6	— .1
23	— .1	.2	6.4	15.0	12.8	9.2	6.0	3.8	.8	.1	2.2	— .1
24	— .2	.3	6.0	12.4	12.2	9.6	5.7	3.6	.6	.0	2.0	— .2
25	— .1	.4	6.0	10.2	11.2	9.0	5.4	3.4	.6	.1	1.7	— .3
26	— .1	.7	6.2	8.5	10.4	8.2	5.0	3.0	.6	.3	1.3	— .3
27	.0	.9	6.3	7.4	10.4	8.0	4.6	2.7	.4	.4	1.0	— .3
28	.1	2.8	6.0	6.6	10.3	7.4	4.2	2.5	.4	.4	.8	— .4
29	2.6	7.2	5.4	6.8	.....	6.8	4.0	2.2	.3	.2	1.1	— .4
30	3.3	10.4	4.7	8.4	.....	6.2	3.8	1.9	.2	.4	1.6	— .4
31	2.7	.....	4.2	9.1	.....	5.9	.....	1.7	.....	.3	1.8	.....

Daily gage height, in feet, of Tennessee River at Florence, Ala.—Continued.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1880												
1	—0.5	1.3	2.3	10.6	3.4	7.4	6.4	11.7	4.3	1.1	0.8	1.0
2	— .5	1.1	2.5	8.3	3.4	7.7	6.2	11.2	4.2	.9	.6	1.1
3	— .5	1.0	3.5	6.8	4.7	7.5	11.0	10.9	4.8	.9	.5	1.7
4	— .5	.8	3.6	6.0	6.7	8.8	14.5	10.4	4.8	1.2	.4	1.4
5	— .5	.7	3.6	5.3	6.6	11.0	15.3	9.8	4.5	1.9	.3	1.2
6	— .5	.6	6.2	5.0	6.3	12.0	14.5	9.0	4.3	1.9	.2	1.0
7	— .4	.5	8.6	9.2	6.1	12.6	14.0	8.0	3.8	3.6	.2	1.1
8	.0	.4	7.8	11.0	5.8	15.0	13.2	7.0	3.5	4.4	.4	1.2
9	.3	.4	6.6	14.2	5.2	15.7	11.8	6.3	3.3	3.9	1.0	1.4
10	— .1	.3	5.9	14.3	4.8	15.2	10.2	5.6	2.9	3.5	1.6	1.3
11	— .3	.3	7.6	13.2	4.4	15.1	9.0	5.0	2.6	3.1	2.0	1.2
12	— .3	.2	11.2	12.2	4.1	15.8	7.9	4.6	2.4	2.6	2.0	1.1
13	— .4	.2	13.0	10.8	4.8	18.0	7.1	4.4	2.2	2.2	1.7	1.0
14	— .2	.2	13.6	9.6	6.3	19.2	6.4	4.1	2.0	1.9	1.5	1.0
15	.0	.5	14.4	8.5	5.7	20.6	5.8	3.9	1.9	1.7	1.6	1.2
16	.4	.6	14.0	7.6	7.3	23.6	5.5	3.7	1.7	1.7	1.8	1.5
17	.8	.9	13.1	6.8	11.4	24.4	6.0	3.5	1.6	1.5	2.1	1.6
18	1.2	2.1	12.9	6.4	13.2	24.5	6.6	3.3	1.5	1.2	2.0	1.5
19	1.0	3.7	12.8	6.0	14.2	23.8	8.8	3.1	1.3	1.2	1.6	1.3
20	.8	3.2	12.2	5.5	14.3	23.1	9.9	2.8	1.2	1.6	1.3	1.1
21	.7	3.4	10.8	5.2	12.8	22.8	10.2	2.6	1.1	1.7	1.1	.9
22	6.3	3.5	9.0	5.2	9.6	22.6	10.0	2.6	1.1	1.5	1.0	.7
23	7.8	3.3	9.1	5.4	7.5	22.4	9.8	2.8	1.0	1.2	1.4	.6
24	6.8	2.8	12.5	5.6	6.4	21.9	9.5	2.5	1.0	1.0	1.4	.4
25	5.5	2.3	13.5	5.3	5.7	20.7	8.8	2.6	.9	.8	1.3	.4
26	4.3	2.0	14.6	4.8	5.5	18.2	9.1	3.2	.9	.8	1.4	.3
27	3.3	1.6	15.0	4.5	7.2	14.7	11.4	3.6	.8	.9	1.4	.9
28	2.6	1.6	15.0	4.2	6.3	11.0	11.2	4.2	.8	1.1	1.3	.8
29	2.2	1.9	14.8	3.9	6.2	8.8	11.4	4.8	1.1	1.4	1.2	.7
30	1.9	2.2	14.2	3.7	.....	7.7	12.0	4.8	1.3	1.2	1.2	.6
31	1.6	.....	12.8	3.5	.....	6.9	.....	4.4	.....	1.1	1.2	.....
1881												
1	.5	.8	10.7	4.4	5.4	7.4	6.9	8.2	2.2	1.4	.7	.4
2	.8	.5	15.4	4.0	5.3	7.4	6.5	7.6	2.2	1.4	.7	.3
3	1.3	.4	16.4	3.5	5.4	7.3	6.3	7.3	2.1	1.4	.6	.3
4	1.6	.5	16.2	3.0	5.5	7.1	6.2	6.6	2.0	1.3	.5	.3
5	1.3	.7	16.9	2.8	6.9	6.6	6.2	6.4	2.1	1.4	.5	.4
6	1.1	.9	18.1	3.1	7.3	6.1	6.0	6.8	2.1	1.7	.5	.3
7	.9	1.4	17.5	3.9	7.3	5.7	5.7	7.3	2.4	1.9	.4	.4
8	.7	1.6	15.9	5.1	7.4	5.4	5.8	6.6	2.5	1.9	.4	.4
9	.6	1.2	14.6	6.4	7.7	5.1	6.1	6.0	3.0	1.7	.3	.4
10	.5	1.7	13.7	7.7	8.2	5.0	6.0	5.8	3.8	1.5	.4	.3
11	.4	3.1	12.2	8.9	9.8	4.8	5.7	5.3	3.4	1.3	.4	.2
12	.3	3.3	10.2	9.5	11.6	4.8	6.0	5.0	3.2	1.1	.4	.1
13	.3	2.9	8.0	9.4	12.5	4.6	8.6	4.8	3.2	1.0	.5	.1
14	.3	2.8	6.6	9.3	13.1	4.6	12.5	4.4	3.2	.9	.7	.0
15	.3	2.8	5.6	9.2	13.6	4.5	13.6	4.0	2.8	.8	1.3	.3
16	.2	2.7	5.2	8.9	13.8	4.8	13.6	3.7	2.4	.7	1.2	.3
17	.2	2.5	6.0	8.3	13.4	10.2	13.6	3.5	2.2	.7	1.0	.6
18	.2	2.3	6.8	7.6	12.1	14.1	13.4	3.3	2.1	.8	.8	.5
19	.2	2.1	7.1	7.3	11.4	15.3	12.6	3.0	2.2	.8	.6	.5
20	.1	1.8	6.9	1.8	12.0	17.2	11.1	2.8	2.2	.9	.5	.5
21	.1	1.6	7.0	11.0	10.6	17.4	9.4	2.6	2.2	.9	.5	.4
22	.0	1.3	6.9	12.1	10.4	16.7	8.3	2.5	2.0	.9	.5	3.6
23	.0	1.2	6.5	12.4	10.7	16.2	7.4	3.1	1.9	.8	.5	6.4
24	.1	1.1	6.0	13.0	10.6	15.1	6.8	3.1	1.8	.9	.5	5.8
25	.1	.9	5.6	13.4	10.2	13.2	6.5	3.0	1.6	1.1	.4	4.4
26	.1	.8	5.4	13.0	9.1	11.0	6.4	3.3	1.6	.9	.4	3.3
27	.0	.8	5.5	11.8	8.0	9.2	7.1	3.2	1.7	.8	.3	2.5
28	.1	.9	5.4	9.9	7.4	8.0	8.2	3.1	1.6	.6	.3	2.0
29	.1	3.6	5.2	8.1	.....	7.4	8.8	2.8	2.0	.6	.4	1.6
30	.5	7.5	5.1	6.8	.....	7.1	8.7	2.6	1.5	.6	.4	1.6
31	1.3	.....	4.7	6.0	.....	7.2	.....	2.5	.....	.8	.4	.....

Daily gage height, in feet, of Tennessee River at Florence, Ala.—Continued.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1882												
1	1.5	1.4	5.4	11.4	20.6	11.5	9.9	6.6	6.4	2.9	2.2	2.6
2	1.4	1.8	4.6	11.4	19.6	12.4	9.5	5.9	6.7	2.9	2.2	2.8
3	1.4	2.8	4.0	11.0	19.2	12.7	8.7	5.8	6.4	2.9	2.4	3.2
4	1.4	5.0	3.7	10.2	20.2	13.4	7.8	4.9	6.3	3.4	3.2	3.9
5	1.4	5.8	3.8	9.2	21.8	14.0	7.0	4.5	6.7	3.6	3.3	4.0
6	1.2	5.5	4.4	8.8	21.4	14.5	6.4	4.2	6.6	4.2	3.7	4.0
7	1.0	5.0	4.4	11.4	20.0	15.2	6.0	4.0	6.0	4.5	4.0	3.4
8	.9	4.1	4.2	13.5	19.0	13.9	6.0	3.8	5.6	4.2	4.0	3.0
9	.8	4.0	4.0	15.3	19.1	14.7	7.4	3.6	5.0	4.0	3.8	2.8
10	.7	4.3	3.6	16.6	19.3	18.0	7.0	3.6	4.4	3.6	3.6	2.8
11	.6	4.0	3.2	18.4	18.8	17.0	6.8	3.0	3.9	3.2	3.1	2.4
12	.6	4.2	3.0	19.8	17.8	16.0	6.8	6.2	3.5	2.9	2.9	2.6
13	.5	4.9	2.7	20.6	17.7	15.8	7.0	5.3	3.2	3.0	2.7	2.8
14	.4	5.2	2.6	23.2	19.9	15.6	7.0	5.0	2.9	3.0	2.5	5.0
15	.4	5.2	3.1	22.9	19.3	14.6	6.6	5.2	2.8	2.4	2.4	10.0
16	.4	5.0	5.0	23.8	18.3	13.2	6.2	5.0	2.7	2.4	2.2	11.7
17	.4	4.7	8.0	26.0	17.5	11.8	5.7	4.7	2.7	2.5	2.4	11.5
18	.4	4.3	10.5	26.7	16.9	10.4	5.2	4.7	3.0	3.1	2.6	9.4
19	.4	3.8	11.0	27.9	16.4	9.3	5.0	5.3	3.0	3.8	2.1	6.6
20	.4	3.3	10.8	27.3	15.7	8.6	4.7	5.6	3.1	3.4	2.0	4.7
21	.4	3.0	9.9	28.4	15.2	8.3	4.5	5.2	4.1	3.1	2.2	3.7
22	.4	2.8	9.6	29.6	14.8	8.1	4.4	5.1	5.0	2.6	2.8	3.0
23	.4	2.8	12.0	28.7	13.6	7.9	5.6	5.3	4.9	2.5	2.8	2.7
24	.5	4.6	14.4	28.0	12.4	7.6	8.0	4.7	4.3	2.5	2.6	2.6
25	.5	4.4	15.2	26.9	11.2	7.4	8.6	4.2	3.8	2.5	2.2	2.4
26	.5	4.4	15.4	25.6	10.2	7.2	9.0	4.0	3.6	2.4	2.2	2.3
27	.5	5.8	14.6	25.0	9.3	7.2	8.7	4.2	3.6	2.2	2.2	2.2
28	.6	6.7	13.5	24.7	9.1	7.8	8.1	4.3	3.4	2.2	2.0	2.0
29	.8	6.8	12.2	25.6	.....	8.3	7.7	5.4	3.1	2.1	2.0	2.0
30	1.2	6.3	11.5	23.9	.....	8.8	7.3	5.6	3.0	2.3	2.1	1.8
31	1.1	.....	11.3	21.8	.....	9.6	.....	6.2	.....	2.1	2.4	.....
1883												
1	1.7	1.4	2.4	3.6	12.2	7.8	7.1	16.4	2.8	2.2	1.1	.8
2	1.6	1.3	2.6	3.2	9.7	7.2	9.0	13.8	2.6	2.4	1.2	.8
3	1.6	1.2	2.8	2.8	7.3	6.5	11.2	10.8	2.5	2.4	1.3	.8
4	1.6	1.2	2.9	2.8	6.8	6.0	13.1	8.8	2.4	2.2	1.0	.8
5	1.6	1.4	2.7	2.8	6.2	5.5	14.2	7.5	2.4	2.1	1.0	.8
6	1.6	1.6	2.4	3.0	6.2	5.2	14.7	6.6	2.2	2.0	.9	.8
7	1.6	1.6	2.2	3.7	6.3	6.0	14.9	6.0	2.2	1.8	.9	.7
8	1.5	1.5	2.0	5.6	7.3	7.5	14.6	5.5	2.1	1.7	1.0	.7
9	1.5	1.4	1.9	7.0	7.3	7.5	13.2	5.0	2.3	1.6	1.0	.6
10	1.4	1.3	1.9	8.6	8.1	7.6	13.1	4.8	2.5	1.5	1.0	.6
11	1.4	1.3	1.8	9.2	10.0	7.9	13.0	4.4	3.3	1.7	1.0	.5
12	1.4	1.3	1.8	9.1	11.2	7.9	13.3	4.2	3.6	1.7	1.0	.5
13	1.4	1.2	1.8	8.3	12.0	7.3	14.5	4.0	4.2	1.7	1.0	.4
14	1.4	1.2	1.8	7.4	11.5	6.7	14.0	3.8	5.0	1.8	1.0	.4
15	1.3	1.2	1.8	8.0	10.7	6.4	13.6	3.8	4.5	1.8	.9	.4
16	1.2	1.2	2.0	9.0	10.3	6.0	13.5	3.6	4.8	2.2	1.1	.4
17	1.2	1.2	2.1	10.4	10.0	5.6	13.1	3.5	4.8	2.2	1.2	.4
18	1.2	1.4	2.1	11.8	9.6	5.1	12.2	3.3	4.7	2.0	1.1	.4
19	1.2	1.6	2.1	12.5	9.0	4.8	12.0	3.2	4.2	1.9	1.0	.4
20	1.2	1.7	2.2	13.2	8.4	4.5	12.0	3.1	3.7	1.7	1.1	.4
21	1.2	1.7	2.0	16.2	7.9	4.3	11.5	3.1	3.2	1.6	1.3	.4
22	1.2	1.7	2.0	18.2	7.8	4.0	11.1	3.1	2.8	1.6	1.4	.4
23	1.2	1.7	2.2	18.4	7.8	3.9	12.2	3.0	2.5	1.5	1.4	.4
24	1.6	1.7	2.8	18.4	7.8	3.7	14.0	2.9	2.2	1.4	1.3	.4
25	2.1	1.7	3.6	18.8	9.3	3.7	15.2	2.8	2.2	1.2	1.1	.4
26	2.1	1.8	5.3	19.6	9.3	3.6	15.8	3.0	2.2	1.2	1.0	.4
27	1.9	1.7	6.4	20.0	8.8	3.9	16.5	3.0	2.2	1.0	.9	.6
28	1.8	1.7	6.3	20.3	8.3	4.4	16.9	3.1	2.5	1.0	.8	1.0
29	1.6	1.8	5.7	19.4	.....	4.7	17.5	2.9	2.4	.9	.8	1.0
30	1.5	2.1	4.9	17.0	.....	4.8	17.5	2.8	2.2	.9	.8	1.0
31	1.4	.....	4.2	14.6	.....	5.1	.....	2.8	.....	1.0	.8	.....

Daily gage height, in feet, of Tennessee River at Florence, Ala.—Continued.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1884												
1	1.2	1.3	4.8	7.8	11.0	9.1	13.0	11.3	3.1	7.4	3.0	1.0
2	1.3	1.2	4.1	6.8	12.0	8.4	11.2	10.4	3.0	7.7	4.0	1.0
3	1.3	1.2	3.5	6.1	13.0	8.1	10.3	9.6	2.7	6.8	4.7	1.0
4	1.1	1.5	3.1	5.6	14.2	7.8	8.8	9.0	2.7	5.9	5.3	1.4
5	1.0	1.8	2.8	5.1	15.0	7.7	8.0	8.6	2.6	5.3	6.4	1.4
6	1.0	1.8	2.4	4.8	15.4	12.5	7.5	8.3	2.6	5.0	6.3	1.2
7	1.0	1.5	2.3	4.5	16.5	14.7	7.0	9.3	2.6	4.9	4.4	1.1
8	.9	1.3	2.4	4.1	17.6	19.1	6.7	9.3	2.6	4.7	3.9	1.1
9	.9	1.2	4.2	3.6	20.7	21.0	6.2	9.2	3.0	4.3	3.3	1.0
10	1.0	1.0	4.5	3.4	21.4	21.3	6.0	8.8	3.5	4.3	2.7	.9
11	1.2	1.3	4.4	3.2	22.5	21.2	5.5	7.9	3.9	4.9	2.3	.8
12	2.8	1.8	4.1	5.2	22.5	23.2	5.3	7.1	3.7	4.4	2.0	.8
13	2.6	2.8	3.7	6.2	23.0	24.6	5.2	6.3	4.0	4.1	1.9	.8
14	2.0	2.4	3.5	6.7	24.0	25.2	5.5	5.7	5.0	3.8	1.9	.8
15	1.5	2.1	3.2	9.0	24.2	25.2	14.2	5.3	6.0	4.1	2.0	.8
16	1.3	1.9	3.0	11.2	24.0	24.9	14.1	4.9	6.2	3.8	2.0	.8
17	1.1	2.0	2.7	10.8	23.7	24.5	13.5	4.6	6.2	3.8	1.9	.8
18	1.0	2.0	2.7	10.8	23.2	24.0	13.2	4.4	5.8	3.4	1.7	.8
19	.9	1.9	2.7	11.6	22.6	23.3	13.6	4.2	5.2	3.0	1.6	.7
20	.9	1.6	3.3	12.6	22.0	22.4	13.5	4.0	4.6	2.6	1.5	.6
21	.9	1.5	3.8	12.4	21.2	21.0	12.0	3.7	4.1	2.3	1.3	.6
22	.8	1.6	3.9	12.1	20.4	19.0	10.8	3.5	3.7	2.2	1.3	.6
23	.8	2.3	4.0	11.9	19.7	17.5	10.2	3.5	3.3	2.2	1.1	.6
24	.8	4.2	4.9	12.9	19.0	17.5	10.1	3.2	2.9	2.2	1.1	.6
25	.8	6.1	9.0	13.4	18.0	17.3	10.6	3.2	2.6	2.0	1.0	.6
26	.6	8.4	8.8	12.9	16.0	17.4	10.5	3.2	2.6	1.8	1.0	.6
27	.6	9.5	8.6	11.3	13.5	17.3	10.6	3.1	2.7	1.6	1.0	.6
28	.6	8.7	9.2	10.8	11.4	17.0	11.3	3.0	3.0	1.8	1.1	.5
29	1.1	7.2	9.7	9.7	10.2	16.1	12.7	3.0	3.3	2.0	1.1	.5
30	1.3	5.8	9.7	9.0	.....	15.3	12.1	3.0	5.4	2.5	1.1	.5
31	1.8	.....	8.8	8.3	.....	14.2	.....	3.2	.....	2.6	1.0	.....
1885												
1	.4	.6	.8	3.4	8.9	7.8	4.5	3.4	9.5	2.7	1.6	.8
2	.4	.5	.8	3.0	8.0	7.5	4.6	3.2	10.2	2.8	1.9	.8
3	.4	.5	.8	2.8	7.0	7.2	4.8	3.0	11.3	3.1	1.9	.7
4	.4	.4	.8	2.6	6.3	6.8	5.3	3.0	11.3	3.2	1.6	.7
5	.4	.4	.8	2.5	5.8	6.4	5.4	2.9	10.2	3.2	1.5	.7
6	.4	.4	.8	2.3	5.5	6.2	5.1	2.8	8.0	3.0	1.5	.8
7	.4	.4	.8	3.8	5.3	6.0	5.0	2.8	6.3	4.0	1.4	.8
8	.4	.4	.8	4.4	5.2	5.8	5.0	2.8	5.2	3.7	1.4	.8
9	.4	.4	.8	5.0	5.4	5.4	4.9	2.8	4.5	3.5	1.6	.7
10	.4	.4	.8	5.3	5.9	4.9	4.6	2.8	4.2	3.8	1.6	.7
11	.4	.4	.8	5.7	6.7	4.5	4.4	2.8	4.0	3.8	1.4	.7
12	.4	.4	.8	6.2	6.4	4.2	4.1	3.5	3.6	3.6	1.4	.7
13	.4	.4	1.0	8.3	6.7	4.1	3.9	3.6	4.0	3.5	1.5	.7
14	.4	.4	1.3	9.3	7.2	4.3	3.8	3.6	4.4	4.0	1.5	.7
15	.3	.4	1.5	11.6	7.2	4.2	3.5	3.2	4.0	3.5	1.3	.7
16	.3	.4	1.9	14.0	7.2	4.4	3.2	3.0	3.7	3.1	1.2	.6
17	.3	.4	2.0	16.2	7.0	4.6	3.1	2.7	3.3	2.8	1.4	.6
18	.3	.4	2.5	17.6	6.5	5.2	3.7	2.4	3.5	2.5	1.8	.6
19	.3	.4	2.6	17.7	6.5	6.0	4.5	2.4	3.5	2.5	2.4	.6
20	.3	.4	2.8	17.8	5.9	6.4	4.6	2.2	3.0	2.8	2.4	.6
21	.3	.4	3.2	17.7	5.5	6.4	4.5	2.2	3.0	2.8	2.0	.6
22	.3	.4	5.6	17.4	5.2	6.0	7.4	2.2	4.5	2.5	1.7	.6
23	.3	.4	6.2	16.1	4.8	5.6	9.3	2.1	4.5	2.0	1.4	.6
24	.2	.4	8.1	14.4	5.0	5.2	8.4	2.1	4.0	1.8	1.3	.6
25	.2	.4	9.8	11.2	5.2	4.8	6.8	2.8	3.2	1.7	1.1	.8
26	.2	.4	9.6	10.9	6.8	4.5	5.5	3.1	3.0	1.7	1.0	1.0
27	.2	.5	8.5	11.4	7.6	4.3	4.7	4.0	3.2	1.7	.9	1.0
28	.2	.6	7.2	12.1	7.9	4.1	4.2	5.4	3.5	1.8	.9	1.0
29	.3	.6	5.8	11.8	.....	4.1	3.8	6.6	3.1	1.6	.8	1.0
30	.5	.8	4.8	11.2	.....	4.6	3.6	7.3	3.0	1.6	.8	1.3
31	.5	.....	4.0	10.1	.....	4.6	.....	9.0	.....	1.6	.7	.....

Daily gage height, in feet, of Tennessee River at Florence, Ala.—Continued.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1886												
1	1.1	4.8	3.5	3.7	9.0	7.3	22.5	4.5	5.6	5.9	2.0	1.8
2	1.2	9.0	3.5	3.7	8.3	7.9	23.8	4.3	5.3	5.4	2.0	1.8
3	1.4	10.0	3.4	4.8	8.0	8.0	24.2	4.3	5.3	5.1	2.3	2.1
4	2.1	9.7	3.4	8.4	7.8	7.5	24.3	4.3	5.3	6.0	2.5	2.3
5	5.1	8.2	3.3	12.4	7.3	7.0	24.8	4.8	5.1	7.0	4.1	2.3
6	4.6	6.9	3.6	14.1	6.7	6.4	26.4	5.3	5.1	7.7	5.2	2.0
7	3.7	6.8	3.7	15.0	6.2	5.8	27.5	7.3	5.1	7.7	5.0	1.7
8	3.0	10.0	3.8	15.3	5.8	5.5	28.1	8.7	5.3	7.7	4.5	1.6
9	2.6	13.6	5.2	15.3	5.4	5.0	28.0	8.3	5.6	8.2	4.3	1.3
10	2.1	14.9	5.8	14.5	5.2	4.6	27.6	8.2	6.2	8.8	4.3	1.2
11	1.7	15.8	6.4	13.0	5.0	4.4	26.8	9.5	7.0	9.0	4.2	.9
12	1.4	16.3	7.4	10.4	6.2	4.2	26.0	10.6	7.2	8.6	3.8	.9
13	1.2	16.5	8.3	8.1	6.8	4.0	25.3	9.8	8.4	7.5	3.4	.9
14	1.1	16.1	8.8	6.4	7.8	4.0	23.9	9.5	8.8	6.5	2.9	1.8
15	1.0	14.4	9.5	5.1	9.5	3.9	21.9	8.0	8.3	6.2	2.5	2.3
16	1.0	10.9	11.0	4.8	10.0	3.9	18.7	6.4	8.0	5.9	2.3	2.3
17	1.1	8.0	12.4	5.8	9.4	3.9	14.4	5.5	8.0	5.2	2.3	1.8
18	2.6	6.7	13.1	7.2	8.4	3.9	10.8	5.0	8.0	4.6	2.2	1.5
19	3.1	5.7	13.1	8.8	7.8	3.9	8.8	4.5	8.5	4.4	2.1	1.5
20	2.9	5.3	12.1	10.2	7.0	3.9	7.6	4.7	8.5	4.4	2.1	1.4
21	2.3	4.9	10.0	10.4	6.4	5.5	6.9	5.4	10.0	4.2	2.2	1.4
22	2.0	4.6	7.9	10.4	5.8	6.5	6.3	5.8	9.0	3.7	2.2	1.3
23	1.8	4.3	6.5	10.4	5.4	6.9	5.9	6.2	8.4	3.3	2.4	1.2
24	1.7	4.3	5.8	10.3	5.1	8.6	5.5	6.7	9.5	3.0	2.3	1.2
25	1.7	4.1	5.3	10.8	5.1	9.7	5.2	7.0	11.0	2.9	2.5	1.2
26	1.7	4.1	5.1	11.6	5.7	9.9	5.0	6.9	10.8	2.9	2.5	1.1
27	1.7	4.1	4.7	11.9	6.3	9.5	4.8	6.6	9.7	2.7	2.5	1.0
28	1.5	4.1	4.5	11.9	6.5	10.8	4.6	6.3	8.6	2.6	2.3	.9
29	1.5	3.8	4.4	11.5	.....	11.7	4.6	6.3	8.0	2.5	2.1	.9
30	1.5	3.6	3.9	10.4	.....	15.8	4.6	6.2	7.0	2.4	2.0	.9
31	2.0	.....	3.8	9.6	.....	20.9	.....	5.8	.....	2.1	2.0	.....
1887												
1	.8	.5	7.7	7.0	13.0	17.5	4.7	7.1	2.4	1.4	1.5	2.9
2	.7	.6	6.3	6.5	12.4	17.4	4.9	6.4	2.6	1.3	1.6	2.8
3	.7	.7	5.1	6.0	11.8	17.3	4.9	7.0	3.6	1.2	1.6	2.3
4	.7	.7	4.2	6.0	12.1	16.6	4.8	7.3	5.5	1.2	1.5	1.8
5	.7	.7	3.5	6.9	11.9	15.1	4.7	7.4	6.4	1.2	1.8	1.6
6	.7	.7	3.2	6.9	11.9	12.5	4.6	6.4	6.2	1.4	4.4	1.3
7	.7	.7	3.0	6.3	12.3	11.4	4.4	5.4	5.6	1.8	5.2	1.1
8	.7	.6	2.8	5.7	13.3	10.9	4.4	5.0	5.0	1.9	5.0	1.0
9	.7	.6	2.8	5.0	12.6	10.2	4.4	4.7	4.7	2.2	4.9	.9
10	.6	.5	2.7	4.5	12.3	10.3	4.3	4.3	4.6	2.7	4.6	.9
11	.6	.5	2.5	4.4	11.1	12.6	4.2	4.5	4.3	2.6	3.8	.8
12	.6	.5	2.7	4.2	10.0	13.8	4.0	4.7	3.8	2.4	3.3	.8
13	.6	.5	3.2	3.9	9.0	14.3	3.7	4.6	3.5	2.0	3.0	.8
14	.6	.5	3.8	3.9	7.6	14.0	3.6	4.3	3.2	2.0	2.8	.8
15	.5	.6	4.5	4.3	7.3	12.8	3.4	4.2	3.0	1.6	2.6	.8
16	.5	.6	6.0	5.0	8.3	10.8	3.2	4.3	2.6	1.4	2.2	.7
17	.5	1.0	7.3	5.6	9.8	9.0	3.0	4.3	2.4	1.4	1.9	.6
18	.5	1.6	8.5	5.8	10.8	7.6	3.0	4.2	2.0	1.2	1.6	.6
19	.5	2.2	10.4	5.5	11.0	6.7	2.9	4.0	1.8	1.1	1.4	.6
20	.5	1.5	9.7	5.2	11.2	6.1	3.0	3.6	1.6	1.0	1.4	.6
21	.5	1.7	9.2	4.8	12.8	5.6	3.0	3.2	1.6	1.0	1.5	.5
22	.5	5.0	9.9	4.4	13.9	5.3	3.4	3.0	1.7	.9	1.4	.5
23	.5	6.3	9.5	4.6	14.5	5.1	5.5	2.8	1.7	1.0	1.3	.5
24	.5	5.7	8.5	7.5	17.4	4.8	8.2	2.8	1.5	.9	2.0	.5
25	.5	5.3	7.4	10.3	17.3	4.6	10.3	2.8	1.4	1.0	2.0	.5
26	.5	7.3	7.0	12.7	16.8	4.3	12.0	2.9	1.4	1.2	2.0	.5
27	.5	8.0	6.0	13.3	17.3	4.2	12.3	2.8	1.3	1.4	1.6	.7
28	.5	8.4	5.7	14.3	17.5	4.1	11.9	2.6	1.3	1.6	1.5	.5
29	.5	8.7	7.1	15.1	.....	4.3	10.3	2.4	1.3	1.5	1.5	.5
30	.5	8.5	8.1	16.3	.....	4.3	8.6	2.4	1.6	1.5	1.4	.6
31	.5	.....	8.0	14.9	.....	4.4	.....	2.4	.....	1.5	2.4	.....

Daily gage height, in feet, of Tennessee River at Florence, Ala.—Continued.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1888												
1	0.7	2.2	0.6	7.1	5.0	8.3	18.2	3.1	4.4	4.8	0.7	2.0
2	.8	1.9	.6	10.0	4.6	7.4	17.7	3.1	4.6	5.1	.7	2.4
3	.8	1.6	.6	11.1	4.5	6.4	17.4	3.1	5.2	4.8	.7	2.6
4	1.0	1.3	.6	12.0	4.4	5.8	16.4	3.1	5.9	4.3	.7	4.2
5	1.4	1.1	.6	11.8	4.9	5.6	14.6	3.0	6.0	3.9	.8	5.4
6	1.5	1.0	.7	10.3	5.5	5.9	12.0	2.9	5.5	3.1	1.2	5.5
7	1.4	.9	.7	8.4	5.8	5.6	9.6	2.7	4.8	2.7	1.2	5.2
8	1.2	.8	.8	7.0	6.0	5.2	8.0	2.6	4.1	2.6	1.1	5.2
9	.9	.8	1.0	6.5	6.9	4.8	7.1	2.8	3.6	2.4	1.2	5.5
10	.8	.8	1.0	6.9	7.0	4.6	7.6	2.7	3.2	2.3	1.4	5.6
11	.8	.8	1.2	7.2	7.5	4.8	9.7	2.5	3.0	2.2	1.3	6.2
12	.6	.8	1.6	7.4	8.8	6.1	11.2	2.5	2.7	2.1	1.2	6.2
13	.5	.7	2.4	9.5	9.4	6.0	13.0	2.7	2.6	1.9	1.1	5.9
14	.5	.7	2.6	10.8	9.7	5.8	13.8	3.0	2.5	1.8	1.0	6.2
15	.5	.7	2.2	11.2	9.2	5.6	13.6	3.1	2.5	1.8	1.1	7.0
16	.5	.7	2.2	12.2	8.6	5.4	12.2	3.0	2.4	2.0	1.2	6.8
17	.5	.8	2.3	12.8	7.8	5.0	9.8	3.0	2.4	2.0	1.2	5.8
18	.5	.8	2.3	14.6	7.2	4.8	8.1	2.8	2.3	1.8	1.1	5.1
19	.5	.8	2.6	15.6	6.6	4.5	6.8	2.6	2.2	1.6	1.1	5.7
20	.5	.7	2.9	16.2	6.2	4.3	6.1	2.4	2.0	1.5	1.1	6.9
21	.5	.7	3.0	16.4	6.2	4.3	5.6	2.7	2.0	1.5	1.0	7.2
22	.5	.7	3.0	16.5	6.0	4.5	5.2	3.0	2.0	1.5	.9	6.6
23	.5	.7	2.8	16.1	5.9	5.0	4.8	3.3	1.9	1.4	.9	6.0
24	.7	.7	2.6	14.6	5.9	5.0	4.4	3.4	1.8	1.4	.8	5.2
25	.7	.6	2.4	12.0	6.6	5.4	4.2	3.6	1.8	1.3	1.4	4.4
26	.8	.6	2.3	9.6	7.9	14.9	4.0	4.9	1.8	1.2	3.0	4.6
27	.8	.6	2.2	8.2	9.2	18.2	3.7	6.5	2.0	1.2	3.0	4.4
28	1.0	.6	2.1	7.0	9.8	20.3	3.5	6.8	3.6	1.0	2.7	4.0
29	1.4	.6	2.3	6.4	9.2	20.5	3.4	6.4	4.4	.9	2.2	4.1
30	2.0	.6	2.8	5.8	.....	20.2	3.3	5.6	4.5	.8	2.1	3.0
31	2.3	.....	3.2	5.4	.....	19.1	.....	4.8	.....	.7	1.8	.....
1889												
1	2.5	9.9	4.0	3.5	10.0	7.0	4.4	2.5	1.6	2.4	5.8	2.6
2	2.2	8.2	3.8	4.6	9.1	6.6	4.2	2.7	2.0	2.6	5.8	2.9
3	2.0	6.6	3.6	4.9	8.3	7.1	4.0	2.9	4.0	3.0	5.7	3.8
4	1.8	5.6	3.4	5.0	7.2	7.4	3.8	2.8	5.6	3.5	5.9	5.2
5	1.6	5.0	3.2	5.3	6.7	7.3	3.7	2.7	7.3	4.0	6.6	5.0
6	1.5	4.6	3.0	7.4	5.8	7.0	3.6	2.6	7.0	4.0	6.9	8.0
7	1.4	4.4	2.9	8.4	5.4	6.7	3.5	2.6	5.4	4.4	6.6	7.9
8	1.5	4.3	2.8	8.6	5.0	6.4	3.4	2.7	4.2	4.9	6.4	8.4
9	1.4	5.3	2.6	9.4	4.6	6.0	3.2	2.8	3.8	5.0	6.2	7.8
10	1.5	6.5	2.6	10.4	4.5	5.6	3.0	2.7	3.1	4.5	5.6	6.3
11	1.4	9.6	2.4	10.4	4.2	5.3	2.8	2.4	2.8	3.9	4.9	5.0
12	1.4	12.3	2.4	10.1	4.0	4.8	2.7	2.3	2.8	3.3	4.4	3.9
13	1.4	13.4	2.3	9.6	3.8	4.6	2.7	2.2	2.8	4.3	4.0	3.4
14	1.4	13.2	2.3	8.8	3.7	4.4	2.7	2.0	2.9	3.7	3.6	3.0
15	1.4	12.1	2.3	8.1	3.8	4.2	4.2	1.8	3.0	4.8	3.5	2.8
16	1.8	10.0	2.3	7.4	7.5	4.0	5.8	1.7	3.5	4.5	3.8	2.6
17	2.7	8.6	2.3	9.1	14.8	3.8	7.4	1.6	5.2	4.7	3.8	2.4
18	3.0	9.0	2.9	9.6	18.7	3.7	7.6	1.6	7.0	4.7	4.2	2.2
19	3.0	9.8	3.1	9.2	19.6	3.8	6.8	1.6	7.5	4.4	4.7	2.5
20	2.6	9.9	3.2	8.9	19.7	5.1	5.6	1.6	7.6	4.3	4.6	4.8
21	2.5	9.5	3.5	8.5	19.6	8.0	5.0	1.8	7.5	4.3	4.2	5.7
22	2.3	8.4	4.2	8.1	18.9	9.0	4.4	1.8	7.4	4.1	3.8	5.2
23	2.2	7.4	4.7	7.6	18.8	8.3	4.0	1.7	6.7	3.6	3.3	4.3
24	2.1	6.6	4.8	7.4	18.5	7.3	3.6	1.6	5.8	3.0	3.0	3.8
25	2.4	6.0	4.4	7.3	17.1	6.6	3.4	1.4	5.1	2.6	2.6	3.8
26	2.9	5.5	4.0	7.3	14.4	6.3	3.2	1.2	4.4	2.6	2.5	4.6
27	4.8	5.1	3.6	8.1	10.8	5.7	2.8	1.2	3.8	3.0	2.4	5.5
28	8.2	4.9	3.4	9.3	7.8	5.3	2.7	1.2	3.1	2.9	2.6	5.5
29	10.6	4.4	3.2	9.6	.....	5.0	2.6	1.2	2.6	2.6	2.6	5.2
30	11.4	4.2	3.0	10.0	.....	4.8	2.5	1.3	2.4	2.8	2.6	5.0
31	11.3	.....	3.0	10.3	.....	4.6	.....	1.2	.....	4.6	2.7	.....

Daily gage height, in feet, of Tennessee River at Florence, Ala.—Continued.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1890												
1	4.4	1.8	6.5	2.8	8.8	22.6	11.6	6.8	5.3	2.4	4.4	3.4
2	4.1	1.8	6.3	3.1	8.7	23.2	11.1	6.4	4.8	2.2	4.2	4.0
3	3.6	2.0	6.0	3.3	8.1	23.3	10.4	6.0	4.4	2.1	4.1	4.2
4	3.2	2.2	5.8	3.5	7.3	22.6	11.2	5.8	4.0	2.0	3.7	3.9
5	3.0	2.8	5.6	3.5	6.8	22.9	11.4	5.6	3.7	2.0	3.6	3.4
6	2.8	3.4	5.2	3.5	6.6	23.2	11.1	5.5	3.7	1.9	3.2	3.0
7	2.4	3.8	4.8	3.5	8.1	23.0	11.2	5.5	3.8	1.9	3.8	2.7
8	2.3	4.0	4.4	3.4	14.4	21.9	11.1	5.8	3.8	2.0	3.7	2.4
9	2.2	4.0	4.2	3.5	16.0	19.6	10.7	6.4	3.8	2.1	3.7	2.4
10	2.0	4.4	4.0	3.5	17.2	16.2	10.1	6.4	3.7	2.2	3.8	2.6
11	2.0	5.4	3.8	3.4	17.0	21.8	9.2	6.4	3.8	2.1	4.2	2.5
12	1.9	6.8	3.6	3.4	16.0	10.3	8.3	6.2	3.7	1.9	4.6	2.5
13	1.8	7.5	3.5	3.4	15.0	9.8	8.5	5.9	3.4	1.9	4.7	2.4
14	1.8	7.5	3.4	3.5	13.6	11.7	6.8	5.7	3.2	1.9	4.4	2.6
15	1.6	7.0	3.3	4.2	11.4	11.4	6.4	5.4	3.0	2.1	4.0	2.8
16	1.6	6.8	3.2	8.6	9.8	10.4	6.1	5.1	2.8	2.0	3.6	2.9
17	1.6	7.4	3.0	8.2	8.8	10.3	5.8	4.9	2.8	1.9	3.3	2.8
18	1.6	9.6	3.0	7.7	8.1	10.9	6.0	5.3	2.7	1.8	2.9	2.8
19	1.6	10.6	2.9	7.8	7.6	11.6	6.4	6.0	2.7	1.7	2.6	2.6
20	1.6	11.1	2.8	7.8	7.4	11.8	8.2	6.1	2.6	1.7	2.4	2.6
21	1.6	10.7	2.7	7.2	7.0	11.4	10.6	6.4	2.6	2.1	2.2	2.8
22	1.6	10.0	2.7	7.4	6.4	11.7	11.8	7.0	2.4	2.8	2.2	2.9
23	1.6	9.3	2.7	6.8	6.0	13.6	11.6	7.8	2.4	2.8	2.0	2.8
24	1.6	8.8	2.6	8.0	5.6	14.3	10.3	8.1	2.4	3.2	2.0	3.2
25	1.6	8.4	2.6	9.5	5.8	14.7	9.0	8.3	2.4	3.3	1.9	3.2
26	1.6	8.2	2.6	9.4	6.9	15.2	8.4	8.6	2.4	3.8	1.9	3.9
27	1.6	7.8	2.7	8.8	13.9	15.7	8.2	7.7	2.5	4.0	1.9	3.9
28	1.7	7.7	2.8	7.8	23.2	16.1	8.2	7.0	2.6	4.4	2.8	3.8
29	1.8	7.4	2.7	6.8	.....	15.8	7.6	6.4	2.6	5.0	3.3	3.6
30	1.8	6.9	2.6	7.5	.....	14.3	7.2	6.0	2.5	5.1	3.2	3.4
31	1.8	.....	2.6	8.4	.....	12.2	.....	5.8	.....	4.9	3.1	.....
1891												
1	3.2	4.8	1.9	8.4	10.8	16.5	14.0	5.0	2.9	3.2	3.9	4.0
2	3.4	4.7	1.9	8.0	12.4	15.3	13.1	4.8	3.3	2.9	6.5	3.8
3	5.6	4.5	1.9	7.4	14.0	14.4	12.8	4.4	3.6	2.7	8.8	3.4
4	6.0	4.2	1.8	7.2	15.3	13.4	12.6	4.3	3.7	2.6	9.2	3.0
5	5.7	4.0	1.8	8.3	15.8	12.5	12.3	4.1	3.6	2.4	10.6	2.6
6	5.2	3.6	1.8	9.6	15.2	12.2	11.9	4.0	3.3	2.3	10.3	2.5
7	4.7	3.4	2.0	10.0	15.8	15.2	11.0	3.8	3.0	2.4	8.6	2.6
8	4.2	3.2	2.2	9.4	16.5	21.8	9.9	3.7	2.9	2.5	6.6	2.8
9	4.0	3.0	2.4	7.8	17.4	21.8	9.1	3.5	2.9	2.5	5.3	2.9
10	3.8	2.8	2.7	6.4	18.8	22.0	8.6	3.4	3.4	2.4	4.3	3.0
11	3.7	2.8	4.1	6.2	19.0	22.1	9.6	3.3	3.6	2.3	3.6	3.1
12	3.6	2.7	5.2	7.4	19.4	21.7	10.0	3.2	3.7	2.6	3.3	3.0
13	3.4	2.6	5.4	7.8	20.6	21.6	10.0	3.1	4.0	3.0	3.0	2.7
14	3.2	2.5	5.0	8.4	21.0	22.0	9.6	3.0	4.5	3.0	2.8	2.4
15	3.0	2.4	4.5	8.7	20.9	22.2	9.2	3.0	4.8	2.7	2.6	2.1
16	2.9	2.4	3.9	8.3	21.2	22.0	9.4	2.9	4.8	2.5	2.5	2.0
17	2.8	2.4	3.4	8.0	21.6	21.2	9.4	2.9	4.4	2.4	2.4	2.0
18	2.6	2.4	3.2	7.6	21.8	19.8	8.6	2.9	4.2	2.3	2.3	2.0
19	2.5	2.3	2.8	7.2	21.5	17.8	7.8	3.0	4.3	2.2	2.2	2.0
20	2.5	2.3	2.7	6.7	20.6	14.9	7.2	3.2	4.4	2.0	2.0	1.9
21	2.6	2.2	2.7	6.4	19.8	12.6	7.2	3.2	4.7	2.0	2.0	1.8
22	2.8	2.2	2.7	7.0	18.6	10.4	6.9	3.2	5.3	2.5	1.9	1.6
23	3.1	2.2	2.7	8.4	17.2	9.4	6.8	3.1	5.4	2.8	1.8	1.5
24	3.6	2.2	2.6	9.8	16.3	8.7	6.7	2.9	5.4	2.6	2.0	1.5
25	4.3	2.2	2.6	12.1	16.1	8.4	6.6	2.8	4.9	2.5	2.4	1.4
26	5.2	2.1	3.0	12.8	16.4	8.6	6.3	2.8	4.8	2.4	2.9	1.4
27	6.1	2.0	3.7	12.2	16.8	9.2	6.0	2.8	4.9	2.2	3.3	1.4
28	6.4	2.0	5.0	11.2	16.9	9.6	5.8	2.7	4.7	2.1	3.6	1.3
29	6.4	2.0	7.1	10.1	.....	10.2	5.6	2.7	4.2	2.3	5.0	1.3
30	5.9	1.9	8.5	9.2	.....	10.7	5.4	2.7	3.6	2.8	5.0	1.2
31	5.3	.....	8.8	8.9	.....	13.4	.....	2.7	.....	3.4	4.4	.....

Daily gage height, in feet, of Tennessee River at Florence, Ala.—Continued.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1892												
1	1.2	1.0	3.1	7.1	5.6	5.2	7.7	8.6	4.4	5.0	3.0	2.6
2	1.2	1.0	2.6	6.6	5.2	5.0	7.4	7.7	4.4	4.8	3.2	2.4
3	1.2	1.0	2.4	6.6	4.8	4.6	9.8	7.2	5.2	4.5	2.9	2.1
4	1.2	1.0	3.0	6.9	4.6	4.5	8.2	6.6	5.4	4.4	2.8	1.9
5	1.2	1.0	4.0	7.0	4.4	4.3	9.5	6.1	5.2	4.2	2.7	2.0
6	1.1	1.0	4.0	7.0	4.2	4.2	16.2	5.8	5.5	4.7	2.6	1.8
7	1.1	1.0	4.9	7.0	4.8	4.2	22.2	5.6	6.4	5.6	2.8	1.7
8	1.1	1.0	5.8	6.8	7.4	4.5	23.9	5.6	6.7	7.8	3.0	1.6
9	1.1	1.0	6.2	6.9	8.2	5.4	23.6	5.0	6.6	11.2	2.8	1.5
10	1.1	1.3	7.0	7.2	8.1	5.7	23.1	4.8	6.2	12.5	2.4	1.4
11	1.1	1.5	7.5	7.6	8.6	6.0	22.4	4.6	6.0	11.0	2.2	1.4
12	1.1	1.3	7.5	8.2	9.2	6.2	21.6	4.4	5.7	9.8	2.2	1.3
13	1.1	1.2	6.8	10.0	8.8	6.2	21.4	4.2	5.4	9.2	2.2	1.4
14	1.1	1.1	6.0	12.8	8.1	6.2	21.5	4.2	5.3	8.8	2.2	1.5
15	1.1	1.3	5.0	14.8	7.4	5.9	20.8	4.0	5.1	9.2	2.0	1.5
16	1.1	1.6	4.2	15.8	7.0	5.6	18.4	3.8	4.6	8.4	2.1	1.5
17	1.1	2.0	3.8	16.6	6.6	5.6	14.6	3.7	4.0	8.2	2.1	1.4
18	1.1	2.2	3.5	17.4	6.4	6.4	11.0	4.0	3.5	7.3	2.5	1.4
19	1.0	2.2	3.5	18.4	6.5	7.3	9.6	5.3	3.2	6.6	2.4	2.0
20	1.0	1.7	3.5	19.6	6.9	7.6	9.6	4.8	3.0	6.2	2.0	2.8
21	1.0	1.6	3.4	20.0	7.8	7.9	12.3	4.6	3.1	5.8	1.8	3.5
22	1.0	1.8	3.0	19.8	8.9	8.1	15.6	4.6	3.3	5.5	1.8	3.8
23	1.0	2.8	2.9	18.6	9.0	8.2	15.7	4.7	4.6	5.1	2.0	3.2
24	1.0	2.6	2.9	17.0	8.8	8.8	14.4	4.8	5.4	4.6	2.0	3.0
25	1.0	2.4	3.3	15.0	8.2	8.4	12.9	4.8	5.2	4.2	2.6	2.6
26	1.0	2.7	4.1	13.2	7.4	8.6	11.6	5.0	5.4	3.8	2.4	2.1
27	1.0	3.6	6.2	10.0	6.8	8.7	10.6	5.3	5.0	3.6	2.2	1.8
28	1.0	4.1	7.4	8.8	6.1	8.6	10.2	5.6	5.0	3.4	2.4	1.8
29	1.0	4.0	8.5	7.5	5.6	8.5	10.0	5.0	5.2	3.1	2.6	2.0
30	1.0	3.6	8.9	6.7	.....	8.4	9.6	4.6	5.0	2.9	2.8	2.0
31	1.0	.....	8.0	6.1	.....	8.1	.....	4.4	.....	2.8	2.8	.....
1893												
1	1.8	.8	2.8	3.4	4.0	8.3	4.4	8.4	13.0	3.0	1.8	1.1
2	1.6	.8	2.8	3.7	5.0	7.6	4.3	9.0	12.8	2.8	1.6	1.5
3	1.5	1.0	3.2	3.7	7.0	7.2	4.2	10.2	11.8	2.6	1.6	4.4
4	1.4	1.1	3.4	3.7	8.0	7.7	4.0	13.0	10.0	2.5	1.5	4.1
5	1.3	1.3	3.5	3.8	7.4	8.4	4.1	13.8	9.6	2.6	1.6	3.6
6	1.3	1.2	3.4	4.3	6.4	8.2	4.3	14.8	14.0	2.8	1.8	3.5
7	1.2	1.2	3.2	4.4	6.0	7.8	4.5	16.0	14.0	2.8	2.0	3.4
8	1.2	1.2	3.1	4.1	5.6	7.7	4.6	16.6	13.8	2.6	1.9	3.2
9	1.1	1.7	3.2	4.0	5.3	7.6	4.4	17.0	13.4	2.4	2.0	2.8
10	1.1	1.9	3.3	3.6	5.1	7.8	4.2	17.1	13.7	2.2	2.4	2.4
11	1.1	2.4	3.2	3.3	5.6	8.2	4.0	16.8	13.2	2.3	2.4	2.6
12	1.0	3.0	2.8	3.0	8.5	9.0	4.1	14.0	11.9	2.2	2.2	2.2
13	1.1	3.9	2.7	2.6	10.4	9.8	11.0	11.4	9.4	2.1	2.0	1.9
14	1.1	4.2	3.2	2.5	12.7	9.8	15.2	8.9	7.2	2.0	2.0	1.8
15	1.0	3.8	3.8	2.4	14.4	9.7	18.2	7.8	6.0	1.9	2.1	2.8
16	1.0	3.2	3.8	2.4	16.6	9.0	17.2	7.4	5.2	1.8	2.0	6.4
17	1.0	3.0	6.8	2.4	20.7	7.4	15.0	7.0	4.7	1.8	1.8	7.3
18	1.0	3.2	7.6	2.0	20.7	7.3	11.5	6.7	4.4	1.7	1.6	6.6
19	1.0	3.8	7.9	2.0	20.7	6.6	9.2	7.0	4.1	1.7	1.7	5.6
20	1.0	4.2	9.2	2.0	20.7	6.0	7.6	7.2	4.0	1.7	2.4	4.6
21	1.0	4.4	10.2	2.1	20.2	5.6	7.2	6.5	3.8	1.7	2.6	3.8
22	1.0	4.2	10.1	2.0	20.2	5.2	7.1	5.9	3.7	1.7	2.2	3.0
23	1.0	3.8	9.6	2.0	20.2	5.0	6.8	5.4	3.7	1.8	2.0	2.6
24	.9	3.4	8.9	2.1	20.2	4.6	6.4	4.9	3.7	1.9	1.6	2.2
25	.9	3.0	7.8	2.4	19.4	5.2	6.0	4.4	3.8	2.2	1.5	2.1
26	.9	2.9	6.8	2.7	16.8	5.6	6.0	4.0	4.0	2.6	1.4	1.9
27	.9	2.6	6.0	3.0	13.2	5.9	7.0	4.2	4.0	2.6	1.3	1.8
28	.8	2.5	5.2	3.1	9.5	5.8	7.6	4.1	3.8	2.4	1.3	1.7
29	.8	2.7	4.5	3.1	.....	5.4	7.6	5.7	3.5	2.0	1.2	1.6
30	.8	2.9	4.0	3.3	.....	5.0	7.8	6.6	3.2	1.8	1.2	1.5
31	.8	.....	3.6	3.6	.....	4.8	.....	6.2	.....	2.0	1.1	.....

Daily gage height, in feet, of Tennessee River at Florence, Ala.—Continued.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1894												
1	1.4	2.0	1.5	1.7	3.8	7.0	4.7	2.7	2.7	1.5	1.9	1.6
2	1.4	1.9	1.5	1.8	3.6	7.6	4.8	2.6	2.5	1.8	2.0	1.6
3	1.5	1.8	1.9	1.8	5.6	7.8	5.4	2.6	2.3	2.2	2.0	1.8
4	1.4	1.7	2.4	2.0	11.4	8.0	5.6	2.5	2.1	2.3	1.7	2.0
5	1.4	1.6	2.6	2.3	10.8	8.0	6.8	2.5	2.0	2.4	1.6	2.0
6	1.4	1.5	2.5	2.8	14.0	7.8	7.0	2.4	1.9	2.8	1.6	1.6
7	1.4	1.5	2.5	3.4	14.6	7.7	6.8	2.3	1.8	2.8	1.5	1.4
8	1.4	1.5	2.6	3.1	15.8	7.5	6.4	2.8	1.7	2.6	1.5	1.3
9	1.4	1.4	2.8	3.8	17.6	7.1	6.0	2.7	1.6	2.2	1.6	1.2
10	1.5	1.4	2.7	5.9	17.0	6.6	5.9	2.5	1.5	1.8	1.5	1.1
11	1.6	1.4	2.6	7.6	15.5	6.2	6.2	2.6	1.5	1.7	1.5	1.1
12	1.6	1.4	2.4	8.2	14.8	5.9	6.2	2.6	1.4	1.7	1.5	1.0
13	1.5	1.5	2.2	7.4	14.6	5.8	6.2	2.9	1.4	1.8	1.4	1.0
14	1.5	2.1	2.1	7.2	13.8	5.8	6.4	3.4	1.4	1.9	1.3	1.0
15	1.5	2.1	2.0	7.0	12.8	5.8	6.4	3.5	1.4	1.8	1.2	1.0
16	1.4	2.0	2.0	7.8	11.4	5.7	6.2	3.4	1.4	1.6	1.1	.9
17	1.3	1.9	2.4	7.1	9.8	5.8	5.7	3.2	1.4	1.5	1.1	.9
18	1.4	1.7	2.2	6.7	8.6	6.1	5.1	2.9	1.3	1.5	1.1	1.2
19	4.0	1.6	2.1	6.1	8.3	6.2	4.6	2.7	1.2	1.9	1.9	1.3
20	4.4	1.5	2.1	5.7	7.8	6.8	4.4	3.0	1.2	1.8	2.2	1.3
21	3.8	1.6	2.1	5.3	7.4	7.2	4.0	3.2	1.2	1.5	1.9	1.3
22	3.0	1.6	2.2	4.9	7.2	8.2	3.8	3.2	1.5	1.7	1.9	1.2
23	2.4	1.6	2.3	4.5	7.2	9.4	3.7	3.4	1.5	1.8	2.0	1.1
24	2.1	1.5	2.2	4.2	7.0	10.3	3.5	3.8	1.5	2.0	2.2	1.0
25	1.8	1.5	2.2	4.5	6.8	9.2	3.4	4.1	1.4	2.1	2.7	1.0
26	1.8	1.4	1.9	4.8	6.6	8.2	3.3	4.4	1.5	2.1	2.8	1.0
27	1.7	1.5	1.8	4.6	6.4	7.2	3.3	4.2	1.5	2.0	2.4	1.0
28	1.8	1.5	1.7	4.4	6.4	6.5	3.1	4.0	1.5	2.2	2.2	1.0
29	2.3	1.5	1.6	4.2	.....	5.9	3.0	3.6	1.5	2.1	1.9	.9
30	2.4	1.5	1.6	4.2	.....	5.4	2.8	3.2	1.5	2.1	1.8	.8
31	2.2	.....	1.7	4.0	.....	5.0	.....	3.0	.....	2.0	1.7	.....
1895												
1	.8	— .1	.1	5.0	7.6	4.9	7.1	5.0	4.9	1.1	4.9	1.7
2	.8	— .1	.1	4.0	7.0	5.4	6.6	4.9	4.3	1.8	3.6	1.9
3	.7	.0	.1	3.2	6.6	7.8	6.1	4.7	3.8	2.3	2.7	1.9
4	.7	.1	.1	3.0	6.5	8.8	5.8	4.4	3.5	2.7	2.1	1.7
5	.6	.2	.1	2.2	6.4	10.8	5.4	4.2	3.2	2.9	1.9	1.7
6	.6	.3	.1	2.0	6.3	12.1	5.0	4.0	2.8	2.8	1.7	1.5
7	.8	.3	.0	2.2	6.4	12.6	5.1	4.2	2.7	3.4	1.6	1.4
8	.9	.2	.1	4.8	6.9	12.4	6.2	4.8	2.5	4.1	1.5	1.4
9	.9	.2	.1	6.0	6.6	11.0	7.8	5.1	2.5	4.9	1.3	1.4
10	.9	.2	.2	7.9	6.0	8.8	9.0	5.6	2.8	5.1	1.4	1.5
11	.9	.1	.4	11.7	5.5	7.8	9.0	6.2	2.9	5.1	1.5	1.8
12	.8	.1	.6	14.0	4.8	7.1	9.0	6.4	2.7	4.5	1.5	1.3
13	.7	.1	1.0	15.1	4.2	7.1	9.2	6.6	2.4	3.9	1.3	1.1
14	.7	.0	2.4	15.9	3.8	8.6	8.8	6.4	2.1	3.4	1.3	.9
15	.7	.0	5.4	16.4	3.5	9.6	7.7	6.3	1.9	3.1	1.3	.9
16	.7	.0	7.0	17.0	3.4	9.8	6.8	6.2	1.8	3.1	1.3	.9
17	.9	.1	7.0	17.4	3.3	9.8	6.3	6.2	1.7	2.5	1.3	1.2
18	1.1	.0	6.2	15.4	3.4	9.4	6.0	5.8	1.8	2.4	1.2	1.4
19	1.1	.0	5.1	12.2	3.5	8.8	5.8	5.4	1.9	2.3	1.2	1.1
20	1.0	.0	4.0	10.4	3.5	11.4	7.0	4.8	1.9	2.2	1.5	.9
21	.9	.0	3.0	10.2	3.8	13.8	8.0	4.6	1.9	2.0	2.7	.9
22	.8	.0	2.6	11.0	4.1	14.0	7.9	4.6	1.7	1.9	4.0	.8
23	.4	.0	2.0	10.7	4.4	14.1	7.2	4.6	1.5	1.7	4.3	.6
24	.0	.0	1.8	10.0	4.6	14.8	6.3	4.4	1.4	1.4	3.9	.6
25	.0	.0	1.5	9.5	4.9	14.9	5.7	3.8	1.4	1.3	3.5	.6
26	.0	.1	1.3	9.6	5.0	14.8	5.4	4.2	1.4	1.2	3.1	.5
27	— .1	.1	1.3	9.9	5.2	13.7	5.5	5.0	1.3	1.1	2.8	.4
28	.0	.1	1.9	9.5	5.0	11.8	5.5	6.2	1.3	1.1	2.8	.3
29	.0	.1	2.8	8.9	.....	9.8	5.6	6.4	1.2	1.4	2.5	.2
30	— .1	.1	4.0	8.4	.....	8.5	5.4	6.0	1.1	5.2	2.1	.1
31	— .1	.....	5.2	8.0	.....	7.6	.....	5.5	.....	6.1	1.8	.....

Daily gage height, in feet, of Tennessee River at Florence, Ala.—Continued.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1896												
1	0.1	0.0	0.2	4.1	7.1	3.5	8.0	4.2	1.4	1.0	4.8	1.6
2	.1	.0	.4	3.8	12.2	3.3	12.2	3.9	1.3	1.0	3.9	1.2
3	.1	.0	.4	3.7	13.2	3.3	15.2	3.4	1.2	1.2	3.4	.9
4	.1	.0	.5	3.6	13.7	3.1	16.8	3.2	1.2	1.3	3.0	.6
5	.0	.1	.5	3.5	13.0	2.9	17.2	3.2	1.8	1.4	2.7	.6
6	.0	.1	.4	3.5	12.3	3.0	17.6	3.0	2.8	1.6	2.6	.5
7	.0	.2	.4	3.3	11.9	3.3	18.4	3.0	3.0	1.7	2.3	.4
8	.0	.2	.4	3.2	11.1	3.7	19.2	3.1	2.8	1.8	2.4	.2
9	.0	.2	.4	3.3	12.1	3.3	19.8	3.0	2.7	2.0	2.5	.2
10	.0	.3	.4	2.9	12.6	3.1	18.7	2.8	2.4	2.7	2.3	.2
11	.0	.3	.4	2.8	12.1	3.0	14.5	2.6	2.4	4.9	1.8	.8
12	.0	.3	.4	2.6	11.3	3.0	9.4	2.4	2.7	9.2	1.6	.6
13	— .1	.2	.3	2.3	11.1	2.9	7.0	2.0	3.9	11.4	1.4	.7
14	— .1	.2	.3	2.1	11.7	2.9	5.8	1.8	3.9	11.6	1.2	.6
15	.0	.3	.5	2.0	11.8	3.1	5.0	1.6	3.2	10.3	1.2	.4
16	.0	.5	.5	1.9	11.5	4.9	4.6	1.4	2.7	8.6	1.2	.4
17	.0	.6	.5	1.7	11.3	7.5	4.2	1.3	2.1	8.0	1.2	.4
18	.0	.6	.6	1.6	10.9	7.2	4.0	1.2	1.8	7.9	1.2	.4
19	.0	.6	.5	1.6	9.9	8.7	3.6	1.1	1.5	8.1	1.1	.2
20	.0	.4	.7	1.5	8.7	11.7	3.4	1.1	1.4	8.7	1.0	.2
21	.0	.4	.5	1.4	7.3	12.7	3.2	1.1	1.3	8.0	.9	.1
22	.0	.4	.6	1.5	6.3	12.7	3.1	1.0	1.2	6.6	.8	.2
23	.0	.4	.6	1.8	5.5	11.7	3.1	1.0	1.4	5.2	.7	.1
24	.0	.2	.6	2.4	4.8	10.1	3.0	1.0	1.7	4.5	.7	.1
25	.0	.2	1.1	2.9	4.4	8.9	2.8	1.1	1.6	4.5	.6	.0
26	.0	.2	4.0	4.0	3.9	7.9	2.8	1.4	1.6	5.6	.6	.0
27	— .1	.2	7.2	5.1	3.7	7.3	3.4	1.8	1.4	5.4	.6	.0
28	— .1	.3	6.4	5.7	3.5	6.6	4.2	2.1	1.7	5.2	.7	.2
29	— .1	.3	4.7	5.7	3.4	6.1	4.0	2.2	1.4	6.8	.7	.4
30	— .1	.3	4.3	5.1	.....	5.8	4.0	2.0	1.1	7.1	.8	.6
31	.1	.....	4.2	4.5	.....	6.5	.....	1.6	.....	6.0	1.0	.....
1897												
1	.4	.1	5.5	1.2	2.8	16.8	8.8	4.2	2.4	3.3	3.5	.7
2	.4	.1	6.7	1.1	3.8	17.1	10.4	4.1	2.3	3.0	2.9	.7
3	.4	.1	8.2	1.0	4.2	15.4	10.2	4.0	2.3	2.6	2.4	.5
4	.6	.2	8.9	1.2	6.1	11.2	13.8	4.1	2.4	2.3	2.0	.4
5	.7	.2	8.8	1.6	7.9	9.0	16.3	4.9	2.3	2.1	1.9	.4
6	.8	.3	7.3	1.7	8.4	9.6	17.2	6.0	2.3	1.9	1.8	.4
7	.9	.3	5.8	1.7	8.8	13.0	17.5	6.1	2.3	1.6	1.9	.3
8	.9	.2	4.7	1.7	8.7	14.1	17.2	5.7	2.2	1.7	1.7	.2
9	.7	.2	3.8	1.7	9.1	14.6	17.8	5.1	2.2	1.8	1.8	.1
10	.6	.6	3.4	1.7	9.6	15.8	18.1	4.8	2.3	1.7	2.0	.1
11	.7	1.5	3.0	1.6	10.5	17.1	17.7	4.7	2.3	1.9	2.1	.1
12	.5	2.4	2.8	1.5	10.8	19.8	16.3	4.9	2.1	2.3	2.8	.1
13	.2	3.8	2.7	1.5	10.2	21.0	13.8	6.9	2.4	2.1	2.9	.1
14	.0	2.6	2.7	1.5	8.8	22.3	11.5	8.3	3.1	2.1	2.6	.0
15	.0	3.6	3.4	2.0	8.1	22.8	9.9	11.1	3.0	2.3	2.1	.0
16	.0	4.3	3.9	2.5	7.8	24.2	9.0	13.1	2.5	2.3	1.9	— .1
17	.0	4.1	3.6	3.3	7.8	25.1	8.3	13.5	2.3	2.1	1.5	— .1
18	.0	3.5	3.2	5.4	7.6	26.3	7.9	13.4	1.9	1.9	1.3	— .2
19	.2	2.9	2.8	6.2	7.1	31.6	7.7	12.1	1.7	2.5	1.0	— .2
20	.2	2.6	2.5	6.3	6.5	30.6	7.4	9.8	1.6	3.8	1.1	— .2
21	.1	2.1	2.4	6.0	6.0	28.6	6.9	7.3	1.5	4.3	1.3	— .2
22	.2	1.8	2.7	6.4	6.0	27.2	6.5	6.0	1.4	3.9	1.3	— .3
23	.2	1.4	2.8	6.4	6.3	25.3	5.9	5.0	1.5	3.9	1.4	— .3
24	.2	1.2	2.6	6.1	8.7	24.2	5.5	4.5	2.2	3.8	1.3	— .3
25	.2	1.0	2.4	5.8	11.8	23.0	5.1	4.0	2.4	3.6	1.1	— .3
26	.2	.9	2.2	5.4	13.9	21.8	4.7	3.7	2.6	3.7	1.3	— .3
27	.2	.8	2.0	5.0	15.0	20.6	4.5	3.5	2.7	4.7	1.4	— .3
28	.1	1.6	1.6	4.4	16.2	19.0	4.3	3.3	3.2	6.7	1.3	— .3
29	.1	5.4	1.6	3.9	.....	14.2	4.1	2.9	3.2	7.3	1.1	— .3
30	.1	5.4	1.4	3.4	.....	11.0	4.2	2.6	3.1	6.0	.9	— .3
31	.1	.....	1.3	3.0	.....	9.2	.....	2.5	.....	4.5	.9	.....

Daily gage height, in feet, of Tennessee River at Florence, Ala.—Continued.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1898												
1	—0.3	0.1	—0.2	3.0	9.8	2.3	6.3	5.2	2.5	0.9	3.6	1.9
2	— .3	.0	.0	2.6	7.9	2.3	9.3	5.3	2.1	.9	4.9	1.3
3	— .3	.0	.2	2.5	6.5	2.1	11.1	5.1	1.7	.9	5.4	1.6
4	— .3	.0	.4	2.2	5.7	2.0	11.5	4.6	1.5	.7	5.2	1.6
5	— .3	— .1	1.5	1.9	4.9	1.9	11.1	4.1	1.5	.7	4.6	4.7
6	— .3	— .1	1.7	1.9	4.5	1.7	11.0	3.8	1.3	.7	3.6	10.0
7	— .4	.0	1.8	1.8	4.1	1.7	10.3	3.4	1.1	.6	3.3	12.0
8	— .4	.0	2.3	1.6	3.7	1.7	9.8	3.3	1.0	.6	6.4	12.6
9	— .4	.0	2.2	1.5	3.4	1.9	9.4	3.1	.9	.6	8.4	11.4
10	— .4	.1	2.0	1.4	3.1	1.9	8.5	2.7	.7	.6	8.8	8.7
11	— .5	.2	1.8	1.6	3.1	1.8	7.8	2.6	.6	.6	8.4	6.8
12	— .4	.1	1.4	2.1	2.9	1.7	7.5	2.6	.5	.5	7.5	5.7
13	— .4	.1	1.4	3.3	2.7	1.9	7.5	2.5	.5	1.0	6.8	4.8
14	— .4	.0	1.0	4.5	2.7	1.9	7.7	2.7	.4	1.3	7.8	4.0
15	— .4	.0	1.0	11.1	2.5	2.2	7.5	2.7	.5	1.4	9.0	3.5
16	— .4	.0	.9	13.4	2.4	4.3	7.3	2.5	.6	1.3	9.3	3.0
17	— .3	.1	.9	12.4	2.3	4.5	7.1	2.3	.6	1.2	9.4	2.6
18	— .2	.1	1.1	10.2	2.1	4.1	7.0	2.1	.5	1.2	7.3	2.2
19	.0	.0	1.5	10.6	2.1	5.1	7.7	2.0	.5	1.5	6.3	2.1
20	.0	.0	2.3	13.4	2.1	4.8	9.5	2.0	.6	2.1	5.0	2.0
21	.1	— .1	5.0	11.9	2.0	4.6	9.5	1.9	6.	2.7	4.2	1.8
22	.1	— .2	6.4	11.6	1.9	4.7	8.7	1.9	1.5	2.3	3.6	1.8
23	.1	— .2	7.2	12.7	1.9	4.5	8.1	1.8	2.3	1.9	3.6	1.7
24	.2	— .2	7.8	12.6	1.8	3.9	7.3	1.7	2.8	1.7	3.2	1.6
25	.3	— .2	8.7	12.1	1.8	3.9	6.7	1.7	3.7	1.5	3.0	2.1
26	.2	— .2	7.8	13.0	1.9	3.6	6.7	1.5	3.1	1.5	2.8	2.6
27	.2	— .2	6.5	13.8	2.1	3.2	6.3	1.5	2.6	1.7	2.4	2.3
28	.2	— .2	5.6	13.8	2.3	3.2	6.1	1.5	2.1	2.4	2.1	3.3
29	.2	— .2	4.6	13.8	.....	4.7	5.8	2.0	1.6	2.5	1.9	3.3
30	.2	— .2	4.0	13.4	.....	5.7	5.3	2.7	1.1	3.3	1.7	3.2
31	.1	.....	3.4	12.2	.....	5.9	.....	2.9	.....	3.7	1.8	.....
1899												
1	2.4	3.1	3.3	3.3	4.3	14.9	14.3	6.6	2.3	1.6	2.4	.1
2	2.0	2.8	3.1	3.2	5.0	14.4	14.4	6.0	2.3	1.6	2.4	.2
3	1.7	2.4	3.0	3.0	5.2	14.3	14.5	5.6	2.3	1.4	2.6	.2
4	1.5	2.3	3.0	2.9	7.1	13.6	14.2	5.2	2.2	1.4	2.2	.4
5	1.4	2.2	3.2	3.3	12.3	12.4	12.9	4.8	2.2	1.4	1.8	.6
6	1.4	2.0	3.3	6.8	15.9	12.1	11.2	4.6	2.3	1.2	1.4	.8
7	3.9	2.0	3.3	11.0	17.3	12.8	10.7	4.3	2.5	1.1	1.2	1.0
8	8.9	1.9	3.6	13.6	18.3	13.3	12.0	4.6	2.4	1.0	1.0	.9
9	9.6	1.9	3.9	14.1	18.6	14.6	13.0	5.5	2.2	.8	1.0	.8
10	8.2	2.0	3.9	13.6	19.0	15.2	13.4	6.2	2.2	.8	.9	.6
11	6.6	2.2	3.7	13.3	19.6	15.3	13.4	6.6	1.9	1.0	.8	.5
12	5.4	2.3	3.4	13.0	20.0	13.9	12.6	7.1	1.7	1.0	.8	.4
13	4.8	2.4	3.2	11.0	20.0	11.8	11.4	7.4	1.3	.9	.8	.3
14	4.2	2.5	3.0	9.2	20.4	11.7	10.2	7.1	1.9	.8	.8	.3
15	3.6	2.9	2.8	8.0	18.9	17.4	9.2	6.6	2.5	.8	.6	.3
16	3.4	2.8	2.4	7.2	14.4	21.0	8.3	6.3	3.0	.7	.6	.3
17	3.2	2.6	2.2	6.6	10.2	21.8	7.6	6.3	3.6	.7	.6	.3
18	2.9	2.4	2.2	6.4	8.8	22.6	7.2	6.1	3.6	.6	.8	.4
19	2.8	2.4	2.0	6.2	8.4	24.6	6.8	5.9	3.6	.5	.9	.4
20	2.9	2.4	2.4	6.0	8.7	25.1	6.4	5.2	3.8	.5	.8	.2
21	3.6	2.6	3.4	5.6	9.4	24.8	6.0	4.6	3.3	.5	.8	.2
22	4.7	3.0	4.3	5.4	9.6	24.5	5.8	4.4	2.8	.7	.7	.2
23	5.9	4.0	4.8	4.2	9.4	24.1	6.1	3.9	2.4	1.1	.6	.1
24	5.9	4.5	4.4	4.6	8.8	23.7	6.6	3.6	2.2	1.3	.5	.1
25	5.2	4.9	4.0	6.2	8.4	23.5	8.6	3.4	1.8	1.5	.4	.0
26	4.8	4.8	3.8	6.7	10.0	23.2	9.6	3.1	1.6	1.6	.4	.0
27	4.7	4.6	3.6	6.5	13.8	22.8	9.2	3.0	1.4	2.1	.3	.0
28	4.7	4.2	3.6	6.5	16.6	22.2	8.9	2.8	1.3	2.1	.2	.2
29	4.4	3.8	3.6	5.8	.....	20.2	8.2	2.7	1.3	1.8	.2	.2
30	3.8	3.3	3.5	5.2	.....	17.1	7.3	2.4	1.2	1.8	.2	.1
31	3.4	.....	3.4	4.8	.....	14.5	.....	2.4	.....	2.1	.1	.....

Daily gage height, in feet, of Tennessee River at Florence, Ala.—Continued.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1900												
1	0.1	—0.1	0.7	3.5	2.8	3.0	7.2	6.4	2.2	9.2	5.4	1.1
2	.0	— .1	.6	3.0	2.6	3.3	6.6	6.1	2.4	8.8	4.9	1.0
3	.0	— .1	.5	2.5	2.4	7.4	6.0	5.4	2.8	8.3	4.2	1.0
4	.0	— .1	.5	2.0	2.1	7.8	5.8	4.9	3.2	8.1	3.6	.8
5	.0	— .1	.3	1.5	2.4	3.4	5.8	4.2	3.6	7.0	3.0	.6
6	.0	.0	.4	1.1	2.3	9.0	5.8	4.0	4.3	5.8	2.5	.6
7	.0	.0	.4	1.0	3.0	10.0	6.2	3.8	5.4	5.0	2.1	.6
8	.0	.0	.4	1.0	3.0	10.8	6.4	3.6	5.3	4.3	1.8	.6
9	.0	.1	.3	1.0	4.2	11.0	6.4	3.6	5.9	4.0	1.4	.5
10	— .1	.1	.4	1.2	5.6	11.4	6.0	3.4	6.2	3.6	1.2	.4
11	.0	.1	2.3	2.1	6.0	11.9	9.2	3.2	5.7	2.8	1.0	.3
12	.0	.2	3.9	4.9	7.0	12.0	11.0	3.0	4.9	3.0	1.0	.2
13	.1	.2	4.8	5.9	8.8	11.7	11.0	3.0	4.6	3.0	.8	.1
14	.2	.2	6.0	7.2	11.4	10.8	10.4	2.7	4.2	2.8	.7	.1
15	.3	.2	6.6	7.7	12.8	9.4	8.8	2.6	5.1	2.6	.6	.1
16	.4	.1	6.4	7.5	14.0	8.2	7.8	2.4	4.9	2.2	.6	.2
17	.4	.1	5.8	6.9	14.6	7.4	11.2	2.3	5.2	2.1	.6	.4
18	.4	.1	5.0	6.4	14.4	6.7	18.0	2.2	5.4	2.0	.6	.6
19	.2	.0	4.3	6.3	13.6	6.4	19.0	2.1	5.4	2.1	.9	1.3
20	.1	.0	5.5	7.3	10.6	7.6	19.2	2.0	5.7	2.1	.8	1.8
21	.1	.0	4.8	8.5	8.5	8.9	17.8	2.0	6.4	2.0	.7	2.2
22	.1	.1	4.5	9.2	7.0	9.2	15.0	1.9	6.7	1.8	.7	2.3
23	.1	.1	4.6	8.6	7.0	9.6	13.7	2.1	7.4	1.6	.8	2.2
24	.0	.0	6.0	7.8	7.2	11.0	12.9	2.6	9.0	1.6	.8	1.7
25	.0	.2	6.8	6.8	7.4	11.8	11.6	2.4	9.2	1.5	.6	1.4
26	.0	.2	6.7	6.0	7.4	11.8	10.4	2.1	9.4	1.5	.6	1.0
27	.0	.4	6.4	5.2	6.4	10.8	9.6	1.8	11.6	2.6	.5	.7
28	.0	.6	5.6	4.5	7.2	9.6	8.4	1.8	12.8	3.0	.6	.7
29	.0	.8	5.1	4.0	.....	8.8	7.4	1.7	12.0	2.9	.8	.7
30	— .1	.8	4.6	3.6	.....	8.2	6.8	2.0	10.4	3.1	1.2	.8
31	— .1	.....	4.2	3.1	.....	7.9	.....	2.1	.....	4.8	1.4	.....
1901												
1	.7	2.3	10.2	3.6	5.5	2.4	13.2	10.1	9.9	4.8	.9	7.2
2	.6	1.8	9.0	3.8	5.6	2.4	13.0	9.0	9.3	4.2	.9	7.0
3	.6	1.4	6.9	4.0	6.7	2.6	13.0	7.9	8.7	3.7	.9	6.9
4	.6	1.2	5.0	4.2	10.0	2.6	13.4	6.9	7.9	3.6	.9	6.7
5	.4	1.0	4.2	4.1	10.7	2.6	14.4	6.1	6.9	3.7	.9	6.6
6	.3	1.0	4.0	4.0	10.4	2.6	15.1	5.6	6.1	3.7	1.1	6.7
7	.3	1.3	4.0	3.6	10.1	3.0	15.4	5.1	5.4	3.5	1.3	6.3
8	.3	1.5	4.5	3.4	9.5	3.2	15.2	4.5	4.9	3.3	.9	5.3
9	.3	1.3	5.6	3.0	8.3	3.6	14.2	5.0	5.0	3.1	.9	4.6
10	.5	2.0	6.0	3.0	8.6	7.8	12.2	4.2	5.2	2.9	4.5	4.1
11	.8	2.0	5.3	4.8	7.3	11.6	9.8	4.0	5.1	2.9	6.9	3.7
12	2.4	1.6	5.0	10.9	7.1	12.0	8.1	4.0	5.1	3.3	6.2	3.3
13	3.3	1.4	4.4	14.0	6.6	11.6	7.1	3.8	5.7	3.7	5.2	3.3
14	3.1	1.2	3.7	15.2	6.0	10.6	6.6	3.7	5.1	3.3	4.1	3.0
15	2.8	1.0	3.2	15.9	5.8	9.0	6.4	3.6	4.5	2.8	4.0	3.9
16	2.2	.9	3.0	16.2	5.3	7.5	7.0	3.5	4.2	2.4	7.1	5.7
17	1.5	.8	2.6	16.2	5.4	6.4	7.3	3.3	4.1	2.1	13.3	6.5
18	1.2	.7	2.4	15.4	5.0	5.5	7.9	3.2	4.7	2.0	15.2	8.0
19	.8	.6	2.2	13.0	4.6	5.0	10.0	3.1	5.7	1.9	16.9	7.7
20	.7	.7	2.0	9.3	4.0	4.6	13.3	3.1	6.2	1.9	18.0	7.9
21	.6	1.2	2.2	7.2	4.0	4.6	15.2	4.1	6.1	1.9	18.5	7.7
22	.7	1.4	2.8	6.0	3.7	4.6	15.9	6.5	5.7	1.8	18.9	6.9
23	.8	1.2	2.8	5.5	3.4	4.4	16.3	9.7	5.3	1.9	18.2	6.0
24	1.0	1.1	3.2	5.4	3.2	4.0	16.1	12.3	5.2	1.9	17.3	5.3
25	1.0	1.4	3.6	6.5	3.2	4.1	16.0	13.7	6.1	1.8	16.1	4.5
26	.8	3.3	3.9	6.4	2.9	4.6	15.6	14.7	5.9	1.8	14.7	3.9
27	1.4	5.0	4.0	6.4	2.8	6.2	14.8	15.7	5.2	1.5	13.0	3.5
28	3.5	6.7	4.0	6.0	2.6	8.6	13.4	16.1	5.8	1.3	10.9	3.3
29	4.4	9.6	3.6	5.6	.....	11.4	12.0	16.1	6.1	1.1	9.1	3.5
30	3.9	10.4	3.4	5.4	.....	12.6	11.0	14.5	5.5	1.0	8.3	3.7
31	3.2	.....	3.2	5.4	.....	13.5	.....	12.1	.....	.9	7.7	.....

Daily gage height, in feet, of Tennessee River at Florence, Ala.—Continued.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1902												
1	3.3	1.0	0.8	17.1	15.6	13.2	17.6	3.7	2.3	1.7	1.1	0.2
2	3.1	1.0	.8	17.8	16.1	14.9	17.2	3.7	2.4	2.5	.9	.3
3	2.9	.9	.9	18.6	16.5	15.6	16.8	4.2	2.3	4.7	.9	.3
4	2.9	.9	.9	18.8	16.4	16.6	17.6	6.4	2.0	6.1	.7	.5
5	2.9	.9	.9	20.6	16.2	18.1	17.2	6.8	1.7	5.5	.6	.4
6	2.9	.9	.9	20.8	15.7	19.4	14.5	6.2	1.6	4.7	.6	.1
7	2.7	.9	.9	20.3	14.8	20.4	11.6	5.1	1.6	4.1	.6	.1
8	2.7	.9	.9	17.4	13.7	20.9	10.3	4.3	1.6	3.3	.7	.1
9	2.6	.9	1.0	12.4	11.4	20.9	9.8	3.9	1.5	2.7	.7	.1
10	2.5	.9	1.1	8.9	8.8	20.2	9.2	3.7	1.3	2.1	.7	.1
11	2.2	.9	1.3	8.2	7.4	18.8	8.6	3.7	1.3	1.9	.5	.1
12	2.1	.9	1.4	6.2	6.5	15.9	8.0	3.3	1.3	1.7	.5	.1
13	1.9	.9	1.8	5.5	6.0	13.6	7.6	3.1	1.3	1.5	.5	.1
14	1.9	.9	2.6	5.1	5.6	11.2	7.0	2.9	1.3	1.4	.7	.1
15	1.9	.9	7.8	4.8	5.4	9.8	6.6	2.7	1.3	1.3	.7	.1
16	2.1	.8	12.4	4.4	5.4	9.1	6.4	2.6	1.3	1.5	.7	.2
17	2.2	.8	15.0	4.1	5.3	9.6	6.0	2.7	1.2	2.1	.6	.3
18	2.2	.8	15.8	3.9	5.0	9.9	5.8	2.7	1.1	2.1	.5	.3
19	2.2	.8	16.0	3.9	4.8	10.6	5.6	2.6	1.1	1.8	.3	.3
20	2.1	.8	16.0	4.4	4.6	10.8	5.3	2.6	1.1	1.5	.2	.3
21	1.9	.8	15.1	4.7	4.5	10.5	5.2	2.5	1.5	1.3	.2	.2
22	1.8	.7	12.0	5.7	4.6	9.6	5.0	2.5	1.9	1.0	.2	.1
23	1.7	.7	8.3	6.0	4.8	9.4	4.9	2.3	2.1	.9	.2	.1
24	1.5	.7	6.8	6.2	5.1	8.2	4.8	2.3	2.1	.8	.2	.0
25	1.4	.8	5.6	6.0	5.8	7.2	4.6	2.4	1.9	.8	.2	.2
26	1.4	.8	5.7	6.1	7.0	7.0	4.4	2.4	1.7	.8	.2	.6
27	1.3	.8	6.3	7.6	7.7	6.9	4.2	2.4	1.7	.7	.2	.8
28	1.2	.8	8.2	9.4	9.8	8.4	4.2	2.3	1.5	.7	.1	.9
29	1.2	.8	11.6	9.5	.....	19.8	3.9	2.2	1.7	.6	.2	1.4
30	1.2	.8	14.8	11.8	.....	19.2	3.8	1.9	1.7	.7	.3	1.8
31	1.1	.....	16.2	14.2	.....	18.7	.....	2.1	.....	.7	.2	.....
1903												
1	1.6	— .3	4.9	3.8	4.0	14.4	12.8	6.6	5.4	2.8	.7	.2
2	1.7	— .3	5.0	4.1	3.9	16.1	12.6	6.5	6.6	2.8	.7	.1
3	1.6	— .3	5.4	5.5	4.6	16.9	12.6	6.2	7.0	2.5	.9	.0
4	1.6	— .4	5.7	5.6	8.6	17.6	12.1	5.8	8.1	2.4	1.2	.0
5	1.6	— .3	6.4	5.5	10.8	18.2	11.2	5.4	10.2	2.2	1.1	.0
6	1.6	— .2	7.3	5.6	12.5	18.8	10.1	5.0	9.8	2.0	1.4	.0
7	1.2	— .2	6.8	5.8	14.2	18.4	9.5	4.6	9.2	2.0	2.4	.0
8	1.0	— .2	6.2	5.6	15.9	18.0	9.7	4.5	8.6	2.1	2.4	.0
9	.8	— .2	5.7	6.0	16.6	17.0	11.1	4.5	8.2	2.2	2.6	— .1
10	.6	— .2	5.1	5.7	15.9	16.6	13.2	4.2	8.4	2.1	2.4	— .1
11	.8	— .2	4.6	5.7	16.3	16.7	14.8	4.0	7.9	2.1	1.8	— .1
12	.8	.0	4.0	5.9	16.6	16.8	15.6	3.9	7.4	2.2	2.0	— .1
13	1.2	.1	3.4	5.8	15.8	16.8	16.6	3.8	6.9	2.7	1.8	— .2
14	.8	.1	3.0	5.7	15.0	16.6	18.2	4.3	6.3	2.7	1.4	— .2
15	1.5	.1	3.0	5.6	14.9	15.7	17.9	6.2	5.8	2.8	1.2	— .2
16	1.2	.1	6.1	5.9	14.8	14.2	17.2	5.9	5.1	3.3	1.2	— .2
17	1.1	.1	6.2	5.6	16.8	12.7	16.2	4.7	4.6	3.5	1.8	— .2
18	1.2	.1	5.6	5.0	17.5	11.2	15.4	4.4	4.3	3.5	2.2	— .2
19	1.4	.0	5.6	4.6	17.5	9.8	14.8	4.0	3.6	3.4	2.4	— .2
20	1.3	— .2	6.2	4.4	17.4	8.7	14.2	3.5	3.2	3.2	2.1	— .2
21	1.2	— .2	6.8	4.0	17.3	8.0	12.8	3.2	2.8	2.8	1.8	— .2
22	1.0	— .2	7.4	3.6	17.7	7.8	11.6	3.0	2.6	2.4	1.7	— .2
23	.8	— .2	7.4	3.4	17.6	7.7	10.5	2.9	2.5	2.0	1.7	— .2
24	.4	— .1	7.6	3.2	16.0	7.8	9.8	2.6	2.6	1.9	1.5	— .2
25	.4	1.0	7.6	3.0	12.9	9.0	9.4	2.5	2.5	1.9	1.2	— .2
26	.2	2.4	6.6	2.8	9.6	11.5	8.6	2.3	2.8	1.6	1.0	— .2
27	.2	2.8	5.8	3.0	8.0	13.4	7.9	2.2	2.6	1.3	.9	— .2
28	.0	3.3	5.0	4.0	9.7	14.6	7.4	2.2	2.5	1.2	.6	— .2
29	— .1	4.2	4.6	4.4	.....	15.2	6.9	1.9	2.5	1.0	.5	— .2
30	— .1	4.5	4.3	4.2	.....	15.0	6.6	2.0	2.5	.9	.4	— .3
31	— .2	.....	4.0	4.2	.....	13.5	.....	3.0	.....	.8	.4	.....

Daily gage height, in feet, of Tennessee River at Florence, Ala.—Continued.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1904												
1	—0.4	—0.4	0.1	1.9	3.2	5.2	11.2	2.6	2.6	0.9	0.5	0.6
2	— .4	— .4	.1	2.0	2.6	5.8	10.1	2.9	3.4	1.0	.6	.6
3	— .4	— .2	.1	1.8	2.2	5.8	8.5	3.6	4.0	1.2	.8	.5
4	— .4	.0	.0	1.5	2.0	5.5	7.4	4.6	3.6	1.5	.7	.5
5	— .5	.4	.0	1.0	1.8	5.2	6.4	4.4	3.2	1.7	.7	.5
6	— .5	.3	— .1	.8	1.6	5.0	5.7	4.0	2.8	2.1	.8	.3
7	— .5	.2	— .2	.7	1.4	4.8	5.4	3.8	2.4	2.1	1.0	.3
8	— .2	.1	— .2	.6	1.3	5.8	5.2	3.5	3.3	2.4	1.0	.3
9	.0	.2	— .3	.5	1.5	6.2	5.7	3.4	3.0	2.2	1.3	.3
10	— .1	.2	— .3	.5	2.0	6.9	5.8	3.5	2.5	1.6	1.8	.3
11	— .2	.0	— .3	.4	3.2	8.0	5.8	3.7	2.2	1.4	2.2	.4
12	— .3	— .1	— .3	.3	3.8	8.4	5.4	4.0	1.9	1.2	2.6	.5
13	— .2	— .1	— .2	.4	3.8	8.2	5.0	4.3	1.6	1.2	2.5	.4
14	— .1	— .1	— .2	.4	3.6	8.0	4.6	4.6	1.6	1.3	2.2	.4
15	— .1	— .1	— .2	.5	3.2	8.2	4.2	4.2	1.2	1.8	2.1	.5
16	.0	— .1	— .2	.5	3.0	8.1	4.0	3.9	1.1	1.4	2.2	.4
17	.2	.0	— .2	.6	2.7	8.0	3.7	3.4	1.0	1.5	2.0	.4
18	.0	1.2	— .2	.7	2.5	7.2	3.4	3.0	.9	1.5	1.7	.4
19	— .1	.7	— .1	1.2	2.0	6.2	3.2	3.0	.9	1.4	1.8	.4
20	— .2	.7	.6	1.4	1.9	5.8	3.0	2.8	.8	1.0	2.0	.3
21	— .3	2.1	2.6	1.7	1.9	5.4	3.0	2.4	.7	1.0	1.7	.4
22	— .3	3.5	1.5	2.6	1.8	7.9	3.0	2.2	.7	.9	1.5	.4
23	— .3	2.9	1.7	4.4	2.0	9.5	3.0	2.0	.6	.9	1.1	.4
24	— .4	2.5	2.6	5.0	3.0	11.8	2.8	1.8	.5	.8	1.0	.3
25	— .4	1.7	2.9	6.8	4.1	14.0	2.7	1.5	.5	.6	1.0	.3
26	— .4	1.1	2.6	8.0	5.2	15.0	2.6	1.4	.8	.6	.8	.2
27	— .4	.8	2.4	6.8	5.4	17.2	2.5	1.4	.7	.5	.7	.2
28	— .4	.5	2.0	5.8	5.4	17.0	2.5	1.2	.7	.6	.8	.2
29	— .4	.5	1.8	5.0	5.0	15.8	2.4	1.2	1.0	.5	1.0	.2
30	— .4	.2	1.7	4.4	.....	14.5	2.3	1.3	1.0	.5	1.0	.2
31	— .4	.....	1.8	3.6	.....	12.9	.....	1.3	.....	.5	.8	.....
1905												
1	.2	— .5	.0	7.2	2.3	9.2	3.7	5.8	4.4	6.4	2.2	2.6
2	.2	— .5	.1	6.0	2.2	7.9	3.6	6.6	4.3	7.7	2.0	2.6
3	.1	— .5	.1	4.8	2.2	6.9	3.5	6.6	4.2	7.4	1.8	3.8
4	.0	— .4	.1	4.0	2.3	6.4	3.5	6.2	3.7	6.0	1.8	3.6
5	.0	— .3	.2	3.4	2.7	5.8	3.5	5.4	3.2	4.8	1.8	3.0
6	.0	— .2	.8	2.8	3.5	5.2	3.4	4.8	2.8	3.8	1.8	2.4
7	.0	— .2	1.8	2.6	5.1	4.9	3.2	4.7	2.6	3.4	1.8	2.0
8	.0	— .2	2.2	3.0	6.4	4.8	3.0	4.8	2.2	3.2	1.5	1.8
9	.0	— .2	2.8	2.7	11.0	6.0	3.0	4.6	2.1	3.2	1.4	1.6
10	.0	— .2	3.2	2.8	14.0	9.6	3.2	4.6	2.0	3.0	1.4	1.5
11	— .1	— .2	3.4	3.2	15.0	10.8	3.4	5.2	1.8	3.6	1.6	1.6
12	— .1	— .2	3.2	5.2	16.7	11.8	4.2	5.8	1.7	4.2	1.8	1.6
13	— .2	— .2	2.7	7.8	16.7	12.8	4.2	5.7	1.7	4.5	2.6	1.4
14	— .2	— .2	2.2	8.3	16.2	12.6	4.4	5.2	1.4	4.4	3.8	1.2
15	— .2	— .1	1.5	10.6	14.1	11.6	4.6	4.8	1.3	5.0	4.8	1.0
16	— .2	— .1	1.2	11.6	12.4	10.2	4.9	4.2	1.4	7.2	5.7	1.0
17	— .3	— .1	1.0	11.4	11.0	8.4	5.2	4.6	1.8	8.1	6.2	.9
18	— .3	— .1	.9	10.4	9.8	7.0	5.0	5.4	1.8	7.3	5.8	.8
19	— .3	— .2	.8	8.4	9.0	6.2	4.6	7.4	1.8	6.2	5.2	.8
20	— .3	— .2	.7	6.6	9.2	5.6	4.1	8.8	1.7	5.3	4.8	.8
21	— .4	— .2	.6	5.6	13.0	5.8	3.8	8.8	1.6	4.2	4.2	.8
22	— .4	— .1	.5	4.8	15.0	6.5	3.4	7.8	2.4	3.4	3.9	.6
23	— .4	.0	.4	4.4	15.5	6.8	3.2	7.2	3.8	3.0	3.4	.5
24	— .4	.0	.4	3.9	15.7	6.8	3.2	9.2	4.4	3.0	3.2	.4
25	— .4	.0	.6	3.4	15.5	6.5	3.1	10.0	4.8	3.0	2.8	.3
26	— .4	.0	1.0	3.1	14.6	5.9	3.1	9.6	4.4	3.1	2.6	.3
27	— .4	— .1	1.5	2.8	13.1	5.4	3.2	9.0	4.2	3.0	3.4	.2
28	— .5	— .1	4.2	2.6	10.8	5.0	3.7	7.8	4.8	2.9	4.0	.2
29	— .5	— .1	5.6	2.4	.....	4.8	4.4	6.6	5.2	2.9	3.7	.1
30	— .5	— .1	7.2	2.3	.....	4.4	5.3	5.6	6.0	2.8	3.2	.0
31	— .5	.....	8.5	2.4	.....	4.0	.....	4.8	.....	2.5	2.9	.....

Daily gage height, in feet, of Tennessee River at Florence, Ala.—Continued.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1906												
1	0.1	1.8	0.3	5.6	7.9	4.0	11.5	3.6	2.4	3.4	5.0	4.6
2	.0	1.5	.3	5.1	7.6	3.9	11.3	3.5	2.3	3.0	5.0	6.5
3	.1	1.4	.4	5.0	7.2	4.8	11.6	3.4	3.0	2.6	5.5	7.6
4	.1	1.2	.9	5.8	6.6	6.8	10.2	3.3	2.9	2.5	6.1	7.5
5	.3	1.0	1.2	7.2	6.2	7.2	8.3	3.3	2.8	2.4	6.2	6.6
6	.3	.8	3.3	8.7	6.0	8.0	7.6	3.4	3.0	2.2	5.9	5.8
7	.3	.6	6.2	9.4	5.6	8.0	6.8	3.4	3.0	1.9	5.2	5.3
8	.2	.6	6.6	10.0	5.2	7.2	6.1	3.5	3.0	1.8	5.2	5.4
9	.1	.6	6.2	9.4	4.8	6.6	6.0	3.3	2.4	1.8	4.8	5.8
10	.4	.5	5.9	8.8	4.4	6.0	5.8	4.2	2.3	1.9	4.6	6.6
11	1.0	.4	6.2	7.8	4.0	5.4	5.9	5.0	2.2	1.9	4.2	6.8
12	1.8	.4	7.0	7.4	3.8	4.8	6.0	5.6	2.0	2.4	4.0	6.6
13	1.6	.4	7.0	7.5	3.6	4.6	6.4	5.4	1.8	3.3	3.6	6.3
14	1.3	.4	6.8	7.0	3.4	4.7	6.8	4.6	1.8	3.5	3.6	6.4
15	1.4	.3	6.6	6.5	3.2	7.8	6.6	3.9	1.8	3.4	3.8	5.5
16	1.9	.3	7.6	6.0	3.0	10.2	6.3	3.6	2.1	5.2	3.4	4.7
17	2.0	.2	7.0	6.0	3.0	9.3	6.2	3.1	3.2	6.2	3.7	4.2
18	1.8	.2	7.0	6.3	2.9	8.8	6.2	2.8	4.4	7.8	4.0	3.7
19	1.5	.1	6.4	6.8	2.9	9.2	6.6	2.4	5.6	8.6	4.6	3.4
20	1.5	.0	5.8	7.2	2.8	10.6	7.0	2.2	5.4	9.4	4.8	3.3
21	1.4	.0	5.6	7.1	2.8	10.8	6.8	2.0	4.8	10.5	5.0	3.9
22	1.2	.0	6.6	8.0	2.9	10.2	6.2	2.0	4.1	10.0	5.0	5.0
23	.8	.1	7.8	12.2	3.2	9.4	5.4	1.8	3.6	8.8	5.0	6.9
24	.6	.1	9.2	13.6	3.6	8.3	4.9	1.6	3.1	8.2	4.8	8.0
25	.6	.1	9.2	13.1	4.0	7.4	4.4	1.6	2.7	9.1	4.4	7.6
26	.8	.1	9.2	12.4	4.5	6.6	4.2	1.8	2.7	9.5	4.2	6.8
27	1.7	.2	9.3	13.2	4.5	6.2	4.0	2.1	3.4	8.3	4.0	5.9
28	1.6	.2	8.8	13.7	4.4	6.6	3.8	2.6	4.0	7.0	4.2	6.0
29	1.8	.3	7.4	12.8	.....	7.2	3.6	3.0	4.0	6.3	4.6	8.4
30	1.8	.3	6.9	10.9	.....	9.5	3.6	2.7	3.8	6.0	4.4	9.0
31	1.9	.....	6.1	8.9	.....	11.1	.....	2.5	.....	5.4	4.0	.....
1907												
1	8.6	3.0	5.4	11.9	5.5	8.6	3.6	7.8	4.1	3.7	1.5	1.4
2	9.8	3.0	4.8	13.4	9.8	13.0	3.5	6.6	4.8	3.8	1.6	1.3
3	14.4	2.7	4.4	14.1	11.9	14.2	3.5	6.0	4.5	4.0	2.1	1.2
4	15.8	2.6	4.2	14.0	12.0	14.4	4.1	5.8	4.4	3.8	2.8	1.0
5	15.9	2.5	4.0	12.8	11.6	14.5	4.5	5.4	4.5	3.4	2.4	1.0
6	15.8	2.4	3.8	10.7	10.1	14.3	4.6	5.4	4.4	3.0	1.9	1.0
7	15.4	2.2	3.7	9.1	8.8	13.3	4.6	6.8	5.0	2.8	1.6	.9
8	13.9	2.0	3.6	7.8	8.1	11.5	4.9	8.4	6.0	2.4	1.4	.7
9	13.2	2.0	3.5	7.2	7.9	9.6	6.6	9.5	5.8	2.3	1.2	.8
10	12.2	1.9	3.7	6.6	7.6	8.4	7.6	10.0	5.6	2.0	1.6	1.0
11	10.6	1.9	3.8	6.0	7.0	8.3	7.3	11.2	6.3	1.7	1.7	.9
12	9.0	1.8	3.8	5.6	6.4	8.4	7.0	12.5	7.0	1.7	1.6	1.8
13	7.7	1.7	3.8	5.2	5.8	8.5	7.0	11.8	8.2	1.8	1.4	1.9
14	6.6	1.7	3.8	5.0	5.2	8.9	6.4	9.8	8.4	2.8	1.6	2.1
15	5.7	1.8	3.9	4.8	5.0	11.2	6.1	10.7	7.6	3.0	2.0	2.5
16	5.1	1.9	3.9	4.5	4.6	11.0	5.6	9.5	7.2	3.6	2.2	2.4
17	4.8	2.2	4.8	4.2	4.2	10.9	5.1	9.6	7.1	4.4	2.0	2.1
18	4.6	2.6	6.5	4.0	4.0	10.4	4.8	8.6	7.6	4.6	1.7	1.8
19	4.5	4.6	6.4	3.9	3.9	9.7	4.5	7.6	9.1	4.0	1.6	1.4
20	4.9	5.5	5.9	4.0	3.6	8.8	4.5	6.4	8.6	3.6	1.7	1.0
21	5.4	10.0	6.9	4.5	3.4	8.0	4.5	5.4	6.5	3.1	1.7	.9
22	5.4	13.5	7.2	4.6	3.2	7.3	4.6	4.9	4.9	2.8	1.7	1.5
23	5.0	15.2	7.2	4.7	3.2	6.4	5.4	4.4	4.0	2.7	1.6	1.7
24	5.2	16.0	6.8	5.0	3.4	6.0	5.5	4.0	3.7	2.5	1.5	2.7
25	5.8	16.7	6.2	5.7	3.8	5.4	5.6	4.0	3.9	2.3	1.8	3.0
26	5.6	16.3	5.8	5.5	4.2	4.9	6.0	3.7	3.8	2.0	1.9	4.8
27	5.2	14.4	5.4	4.9	4.5	4.6	6.0	3.6	4.0	1.8	1.8	6.9
28	4.5	10.7	5.0	4.4	5.4	4.2	6.0	3.0	4.0	1.5	1.8	6.6
29	4.0	7.7	4.6	4.0	.....	4.0	6.0	3.0	4.0	1.5	1.8	5.9
30	3.6	6.2	5.0	4.0	.....	3.9	6.8	3.0	3.9	1.4	1.7	4.8
31	3.4	.....	7.4	3.8	.....	3.7	.....	3.5	.....	1.5	1.6	.....

Daily gage height, in feet, of Tennessee River at Florence, Ala.—Continued.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1908												
1	3.9	0.4	6.4	9.5	5.2	6.5	7.8	8.6	4.0	2.2	0.8	3.6
2	3.4	.6	5.3	11.5	6.6	6.5	7.0	7.7	3.8	1.8	.7	2.9
3	3.3	.7	4.4	12.0	6.9	6.4	6.4	6.4	3.8	1.6	.8	2.3
4	2.9	.8	3.9	12.0	6.9	6.6	5.9	5.8	4.2	1.6	1.0	1.8
5	2.5	.7	3.4	12.0	7.0	7.0	5.6	6.8	4.7	1.6	1.1	1.5
6	2.0	.7	3.0	11.6	6.9	7.4	6.8	9.6	4.2	1.4	1.6	1.6
7	1.8	.8	2.8	10.7	6.8	7.7	9.4	8.6	3.9	2.1	1.5	1.5
8	1.8	1.4	2.4	11.2	6.5	7.6	9.6	7.5	4.0	3.4	1.5	1.5
9	1.6	1.5	2.4	11.0	6.2	7.1	8.3	6.6	4.2	4.0	1.8	1.5
10	1.7	2.0	2.3	10.0	7.4	7.0	6.8	6.2	4.1	4.2	2.1	1.6
11	1.7	2.0	2.6	8.8	9.9	7.2	6.0	6.1	4.0	4.2	2.4	2.0
12	1.6	2.0	2.7	8.0	11.0	7.8	5.4	6.1	3.6	4.4	2.6	2.2
13	1.4	2.8	2.7	7.8	10.8	8.0	5.0	6.0	3.2	4.3	2.8	2.0
14	1.2	3.8	3.0	7.8	11.2	8.0	4.6	5.6	3.1	4.0	2.4	1.8
15	1.0	5.4	3.3	10.0	12.5	8.6	4.4	5.2	2.9	3.6	2.2	1.5
16	1.0	6.5	4.3	11.6	14.6	8.9	4.2	5.0	2.7	3.0	1.8	1.1
17	.9	5.2	5.0	12.3	15.3	8.7	4.2	4.8	2.5	2.6	1.4	.9
18	.8	4.2	5.0	12.7	15.8	8.2	4.4	4.7	2.3	2.2	1.1	.7
19	.8	3.5	5.0	11.0	17.0	7.2	7.2	5.2	2.4	2.2	1.0	.6
20	.7	3.2	5.0	9.6	17.0	7.2	7.8	4.8	2.4	2.2	.8	.5
21	.6	3.2	4.6	8.4	16.0	8.0	7.6	4.3	2.7	2.0	.8	.5
22	.5	3.6	4.5	7.6	14.2	8.1	7.0	4.2	2.6	1.7	.8	.6
23	.5	4.0	4.4	6.8	11.4	9.0	6.2	4.0	2.4	1.6	1.0	.7
24	.5	4.8	4.3	6.2	9.2	12.2	6.0	4.2	2.0	1.6	1.6	.6
25	.5	6.2	4.3	5.6	7.9	13.6	6.8	4.2	1.9	1.5	2.4	.5
26	.4	7.6	5.2	5.4	7.5	13.4	7.0	4.4	1.8	1.4	3.6	.4
27	.4	8.6	5.4	4.8	7.3	13.4	7.5	4.6	1.7	1.2	4.1	.3
28	.3	9.2	5.6	4.8	7.1	12.9	8.1	4.6	1.6	1.1	3.6	.2
29	.3	8.9	5.3	4.5	6.8	11.8	8.6	4.4	2.0	1.0	3.2	.1
30	.3	7.9	6.6	4.4	.....	9.6	9.0	4.2	2.3	1.0	3.6	.1
31	.3	.....	8.2	4.4	.....	8.8	.....	4.5	.....	1.0	4.0	.....
1909												
1	.0	1.3	.6	5.8	3.9	15.7	11.5	9.9	8.2	7.6	2.9	1.4
2	— .1	1.0	.5	5.8	3.7	14.3	11.6	12.6	7.1	6.8	2.9	1.3
3	— .1	2.0	.5	5.8	3.6	12.4	10.8	13.8	6.9	6.3	3.2	1.3
4	— .1	3.1	.6	5.8	3.4	10.4	9.4	14.6	9.2	6.2	4.9	1.4
5	— .1	3.0	.7	5.7	3.3	8.8	8.0	14.8	13.0	6.0	5.4	1.5
6	— .1	2.4	1.4	5.8	3.3	8.0	7.0	14.8	14.8	5.9	5.8	1.4
7	— .1	1.9	3.4	6.4	4.0	8.0	7.1	13.8	15.6	5.6	6.2	1.3
8	.0	1.4	6.2	6.8	4.4	8.0	8.0	11.5	15.6	5.2	6.0	1.2
9	.0	1.0	7.5	7.0	5.2	8.8	8.1	9.2	15.4	5.4	5.2	1.0
10	.0	1.0	8.8	7.2	7.9	10.5	7.6	7.4	14.2	7.0	4.4	1.0
11	.0	.8	9.7	6.8	10.6	12.6	7.4	7.0	12.8	9.9	3.8	1.4
12	.0	.6	9.1	5.9	11.6	14.2	7.0	6.8	11.5	11.8	3.2	1.3
13	.0	.6	8.0	5.4	12.4	16.1	7.0	6.8	10.6	11.2	3.0	1.3
14	.2	.5	6.6	5.1	13.6	18.8	7.7	6.9	9.7	9.6	2.9	1.3
15	.4	.5	5.7	5.8	14.8	19.6	7.4	7.1	9.0	8.0	2.8	1.3
16	.8	.6	5.6	6.8	15.4	19.4	6.9	6.8	8.2	8.0	2.6	1.3
17	1.2	.8	5.2	8.8	14.7	19.0	6.3	6.2	8.2	8.8	2.8	1.3
18	.8	1.0	4.9	10.4	14.2	18.2	6.0	5.6	8.4	8.7	3.0	1.1
19	.6	1.0	4.5	11.0	14.6	16.6	6.0	5.0	8.0	8.0	3.0	1.0
20	.2	1.0	4.0	11.6	14.7	14.2	5.6	4.6	7.4	6.8	5.8	.9
21	.2	1.0	3.6	11.8	14.0	11.7	5.1	4.8	7.1	5.8	7.4	.9
22	.2	1.0	3.6	10.5	13.2	10.0	4.7	6.0	8.6	4.9	6.0	.9
23	.1	.9	5.3	9.4	14.8	9.1	4.8	7.1	9.2	4.4	4.6	1.2
24	.1	.8	6.3	7.8	18.8	8.9	5.9	9.6	9.0	4.0	3.6	1.2
25	.0	.8	7.4	6.6	18.7	8.6	6.8	12.4	8.4	3.4	3.0	1.5
26	.0	.8	8.6	5.8	19.0	8.8	7.6	12.9	7.6	3.3	2.4	1.6
27	— .1	.8	8.8	5.1	18.3	8.4	8.0	11.6	7.4	3.5	2.0	2.1
28	— .1	.7	8.2	4.8	17.1	9.3	7.6	9.6	8.2	3.4	1.8	2.4
29	1.0	.7	7.2	4.4	.....	10.5	7.5	7.6	8.3	3.2	1.6	2.6
30	2.4	.7	6.4	4.0	.....	11.0	7.4	6.5	8.0	3.0	1.5	2.2
31	2.0	.....	5.6	4.0	.....	11.0	.....	7.5	.....	3.1	1.4	.....

Daily gage height, in feet, of Tennessee River at Florence, Ala.—Continued.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1910												
1	1.8	0.6	0.5	1.8	4.0	6.9	1.9	3.8	6.7	6.0	3.4	1.3
2	1.4	.6	.4	1.6	3.8	7.4	1.8	4.1	5.7	6.0	3.6	1.4
3	1.2	.5	.3	1.3	3.5	8.6	1.6	4.0	5.2	6.4	4.0	1.9
4	.9	.5	.3	1.2	3.4	9.8	1.6	3.8	4.6	7.0	4.2	3.0
5	.8	.4	.3	1.2	3.2	10.6	1.6	3.4	4.3	7.2	4.0	5.0
6	.7	.4	.3	2.5	3.0	10.0	1.5	3.0	4.4	7.8	3.9	5.6
7	.6	.4	.6	5.8	2.9	9.0	1.5	2.7	4.8	8.1	3.6	4.8
8	.5	.4	.8	6.4	2.8	7.8	1.4	2.6	5.2	8.7	3.9	4.2
9	.5	.4	1.6	7.6	3.0	6.8	1.3	2.5	6.1	9.2	4.0	4.2
10	.5	.4	1.9	9.2	3.0	5.9	1.2	3.0	7.2	9.4	4.2	3.8
11	.5	.4	2.6	9.2	3.0	5.5	1.2	4.2	8.0	9.6	4.0	3.6
12	.4	.3	2.8	7.8	3.0	5.2	1.2	5.3	7.3	9.3	4.0	3.0
13	.5	.3	2.6	6.7	2.8	4.7	1.2	5.7	6.6	8.4	3.6	2.8
14	1.2	.3	2.5	5.7	2.7	4.5	1.2	5.7	7.2	7.9	3.4	2.6
15	1.6	.3	2.6	5.0	2.7	4.3	1.2	5.4	7.4	7.4	3.0	2.5
16	2.4	.3	3.1	4.1	3.0	4.2	1.3	4.8	6.8	6.7	2.2	2.4
17	2.8	.3	3.6	3.7	4.8	4.0	3.8	4.4	6.2	6.5	1.9	2.2
18	3.6	.3	3.7	3.6	8.3	3.8	4.9	3.8	6.0	7.8	1.8	2.0
19	3.6	.3	3.7	3.7	9.4	3.7	5.0	3.8	5.9	8.7	1.6	1.6
20	3.0	.3	3.5	4.3	9.8	3.3	5.8	4.2	5.8	7.6	1.4	1.4
21	2.4	.3	3.1	4.6	11.0	3.2	6.1	5.9	5.4	6.6	1.3	1.2
22	2.0	.3	2.7	5.4	11.7	3.0	5.6	7.8	5.4	5.4	1.3	1.0
23	1.6	.3	2.2	6.4	11.3	2.8	5.0	8.8	5.0	4.4	1.6	.9
24	1.4	.6	1.8	7.0	10.6	2.8	4.4	9.1	4.8	4.0	1.8	.8
25	1.2	.6	1.8	7.2	9.4	2.6	4.0	9.8	4.4	4.0	2.0	.8
26	1.0	.5	2.0	7.0	8.4	2.6	3.6	10.5	4.2	3.8	1.8	.7
27	.9	.4	2.4	7.0	7.4	2.4	3.3	10.8	3.9	4.0	1.6	.7
28	.8	.3	2.5	6.2	6.8	2.3	3.2	10.6	3.8	4.2	1.5	.7
29	.8	.4	2.3	5.6	.....	2.2	3.2	9.7	4.0	4.4	1.5	.7
30	.7	.5	2.2	4.9	.....	2.1	3.4	8.7	5.2	3.6	1.4	.7
31	.6	.....	2.0	4.4	.....	2.0	.....	7.7	.....	3.4	1.3	.....
1911												
1	.7	.2	.4	4.8	4.5	5.4	6.0	5.6	2.0	1.2	2.1	.0
2	.8	.2	.4	8.2	4.6	5.0	5.6	5.5	1.6	1.2	2.7	— .1
3	.8	.2	.4	13.4	5.1	5.0	5.4	5.6	1.5	1.6	2.6	— .2
4	.8	.2	.4	16.8	5.6	4.4	6.9	7.0	1.4	1.6	2.3	— .3
5	.9	.2	.8	17.0	6.6	4.0	12.8	7.8	1.4	1.3	1.9	— .2
6	1.1	.2	2.0	17.0	6.9	4.0	17.0	7.6	1.3	1.2	1.9	.6
7	1.2	.2	4.4	16.6	8.0	4.0	18.5	6.6	1.3	1.1	2.2	1.2
8	1.4	.2	6.2	16.2	9.2	3.8	19.8	5.8	1.4	.8	2.4	1.0
9	1.2	.2	7.6	15.2	13.0	3.6	21.5	5.2	1.3	.7	2.4	.8
10	1.0	.2	7.8	12.4	14.5	4.1	22.0	4.6	1.3	.9	2.2	.8
11	.9	.1	6.6	9.3	15.6	8.0	21.8	4.2	1.2	1.0	2.0	1.0
12	.8	.1	5.7	7.0	15.8	11.0	21.5	4.0	1.1	.8	1.6	1.6
13	.8	.1	4.6	6.0	16.0	11.8	20.8	3.6	1.0	1.0	1.4	.8
14	1.4	.1	3.7	5.4	15.8	10.8	19.4	3.4	1.0	1.2	1.2	.6
15	1.9	.0	2.9	4.7	15.4	8.6	18.2	3.0	1.0	1.6	1.2	.5
16	2.0	.0	2.4	4.2	13.6	6.8	16.3	3.0	.8	1.9	1.1	.4
17	1.7	.0	2.0	4.0	10.6	5.8	14.2	3.0	.7	1.9	1.0	.2
18	1.2	— .1	1.8	3.6	8.6	5.2	13.6	2.7	.4	1.9	1.0	.2
19	.9	— .1	1.6	3.5	7.0	4.7	14.0	2.6	.4	1.9	.9	.1
20	.6	— .1	1.4	3.4	6.4	4.2	16.2	2.5	.4	1.8	1.4	.1
21	.5	— .1	1.0	3.2	6.2	4.0	16.8	2.5	.7	2.4	1.4	.1
22	.4	— .1	1.0	3.0	6.0	3.8	15.8	3.0	.7	3.4	1.2	.2
23	.3	— .1	1.1	3.0	5.4	3.7	14.6	3.5	.7	3.0	1.0	.1
24	.3	— .1	1.1	3.0	5.4	3.7	12.5	4.0	.8	3.0	.8	.1
25	.2	— .1	1.4	2.8	5.0	3.7	10.8	3.6	1.0	2.9	.6	.2
26	.2	— .1	1.4	2.8	5.0	4.0	9.2	3.4	1.2	2.8	.4	.2
27	.2	— .1	1.4	3.0	4.8	4.6	7.7	3.0	1.4	3.4	.3	.2
28	.2	.0	1.4	3.4	5.2	5.2	6.7	2.6	1.5	3.3	.3	.2
29	.2	.1	1.8	4.0	.....	5.8	6.6	2.4	1.9	3.2	.2	.3
30	.2	.5	2.2	4.2	.....	6.0	6.0	2.2	1.4	2.4	.1	.3
31	.2	.....	3.0	4.2	.....	6.2	.....	2.0	.....	2.0	.0	.....

Daily gage height, in feet, of Tennessee River at Florence, Ala.—Continued.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1912												
1	0.4	0.8	3.0	17.0	10.3	13.6	18.4	17.4	7.2	5.2	3.0	1.8
2	.5	.4	2.8	15.4	11.1	12.7	18.9	16.5	7.3	5.4	2.9	1.7
3	.4	.3	2.5	13.6	11.0	11.6	19.6	16.2	6.4	4.8	2.6	1.4
4	.2	.3	2.2	12.5	10.4	10.0	19.4	16.5	5.7	4.4	2.6	1.3
5	.2	.2	2.0	11.0	9.3	8.6	19.0	15.9	5.4	4.0	3.1	1.3
6	— .1	.2	1.9	9.2	7.8	8.4	18.6	14.6	4.9	4.2	3.3	1.2
7	— .1	.2	1.8	7.9	6.4	8.2	17.5	13.4	4.4	5.8	3.2	1.2
8	— .2	.4	1.5	7.1	5.6	9.0	17.5	12.2	4.0	6.8	3.0	1.2
9	— .2	.5	1.4	7.6	4.9	10.2	17.4	10.6	4.0	7.7	3.6	1.0
10	.1	.8	1.3	8.1	4.4	10.8	16.2	10.0	3.8	7.4	4.1	1.0
11	.3	1.0	1.6	7.6	4.0	10.6	13.1	9.4	3.4	6.4	4.0	.8
12	.5	1.6	3.4	7.0	3.8	10.8	10.2	9.0	3.2	6.2	3.4	.7
13	.5	2.2	5.5	6.6	3.6	10.8	8.6	8.6	3.0	6.2	3.0	.5
14	.4	2.9	7.4	6.1	3.5	11.2	8.0	7.6	2.8	6.1	2.8	.4
15	.5	3.0	8.7	5.6	3.8	13.7	7.6	7.0	2.6	6.0	2.6	.4
16	1.0	3.5	9.2	5.1	4.0	15.6	8.0	6.4	2.4	5.9	2.4	.4
17	1.6	3.4	8.6	4.8	4.4	16.3	9.6	5.9	2.2	5.2	2.2	.4
18	2.4	3.2	8.0	4.4	5.0	16.2	11.0	5.6	2.0	4.4	2.2	.4
19	2.8	3.0	7.6	4.8	5.1	16.2	10.8	5.1	2.6	4.6	2.2	.5
20	3.1	2.9	6.8	5.6	5.3	16.0	10.0	5.0	2.8	4.4	2.2	.4
21	3.5	3.0	5.8	4.9	6.7	15.4	9.5	5.0	2.9	4.2	2.2	.5
22	3.8	3.1	6.2	4.4	9.3	14.0	9.5	5.2	2.8	3.8	2.4	.8
23	4.1	3.0	8.1	4.3	9.8	11.8	9.6	5.1	2.5	3.7	2.4	2.8
24	4.2	2.9	8.6	4.4	10.8	12.4	10.3	4.8	2.4	3.7	2.6	4.0
25	3.6	2.8	8.8	4.5	12.0	13.2	11.0	4.2	2.2	3.7	2.7	4.0
26	2.6	2.7	9.9	4.4	14.1	12.6	11.5	4.0	2.4	3.6	2.8	3.3
27	2.1	2.5	13.6	4.2	15.5	12.6	12.4	3.8	2.6	3.3	3.0	4.7
28	1.6	2.5	15.0	4.6	15.0	13.2	13.9	3.5	3.2	3.0	3.2	3.0
29	1.2	2.6	15.4	6.0	13.8	15.2	15.8	4.2	4.0	3.0	2.9	3.0
30	1.0	3.0	15.4	8.0	.....	17.6	17.4	7.2	4.6	3.0	2.4	3.
31	.9	.....	13.3	9.0	.....	18.0	.....	7.4	.....	3.2	1.9	.....
1913												
1	2.8	.3	.1	4.6	16.8	14.8	17.2	3.6	7.3	1.5	.6	.3
2	2.6	.3	.2	5.2	15.8	15.2	17.6	3.7	7.9	1.3	.9	.2
3	2.2	.3	.2	6.1	14.2	15.0	17.9	3.6	7.4	1.2	1.0	.2
4	1.9	.3	.6	8.0	12.0	15.2	17.4	3.6	6.6	1.2	1.0	.2
5	1.5	.2	1.8	8.0	10.3	13.8	14.6	3.4	6.0	1.2	1.0	.2
6	1.2	.2	3.6	8.0	9.2	11.5	10.6	3.2	5.6	1.1	.8	.0
7	1.0	.2	4.5	10.0	8.6	9.1	8.8	3.2	5.8	1.1	.8	.0
8	.8	.3	6.2	11.2	8.2	7.7	7.6	2.9	6.0	1.1	.7	.0
9	.7	.3	7.2	12.6	7.8	6.6	6.8	2.8	5.6	1.1	.7	.0
10	.6	.4	7.0	15.0	7.2	5.9	6.2	2.8	5.2	1.1	.7	.0
11	.5	.4	6.3	14.4	7.2	5.8	6.0	2.6	4.8	1.4	.7	.0
12	.4	.4	5.0	14.0	8.3	5.7	5.9	2.6	4.8	1.5	.7	— .1
13	.3	.8	4.2	13.6	10.9	6.4	5.4	2.8	5.5	1.4	.7	— .2
14	.3	1.3	3.5	12.8	11.0	13.0	5.2	2.8	5.4	1.4	.6	— .3
15	.3	1.5	3.0	11.5	11.4	15.5	5.2	2.6	4.7	1.4	.8	— .3
16	.3	1.2	2.6	10.6	11.4	16.5	5.5	2.6	4.1	1.2	1.6	— .3
17	.3	1.0	2.1	9.6	10.2	16.2	5.8	3.0	3.6	1.2	1.3	— .3
18	.3	.9	2.0	9.3	8.9	16.8	5.8	2.8	3.0	1.2	1.2	— .3
19	.6	.7	2.0	9.1	7.8	17.2	6.2	2.7	2.6	1.2	1.0	— .3
20	.8	.6	2.0	8.6	6.8	17.5	6.2	2.8	2.4	.8	.8	— .1
21	1.0	.5	2.0	8.8	6.2	18.5	6.2	2.9	2.2	.7	.7	— .1
22	1.0	.5	1.9	9.5	5.8	17.4	5.8	3.2	2.0	.6	.6	— .1
23	.9	.5	1.8	9.6	5.8	15.5	5.4	4.2	2.2	.6	.6	— .1
24	1.0	.4	2.3	10.3	5.6	13.4	5.0	5.4	2.2	.6	.7	— .1
25	1.0	.3	2.8	13.0	5.2	11.6	4.6	6.4	1.8	.6	.7	.0
26	.9	.3	3.0	13.8	5.0	10.6	4.2	7.5	2.0	.4	.6	.3
27	.8	.3	2.8	14.8	9.1	14.0	4.0	9.2	1.9	.4	.6	.4
28	.6	.2	2.8	16.8	13.8	14.2	4.0	10.2	1.8	.4	.6	.5
29	.6	.2	2.8	17.0	.....	15.8	3.8	10.2	1.6	.4	.5	.8
30	.5	.2	3.0	16.8	.....	16.0	3.8	9.0	1.5	.6	.4	2.0
31	.4	.....	4.0	16.9	.....	16.6	.....	7.8	.....	.6	.4	.....

Daily gage height, in feet, of Tennessee River at Florence, Ala.—Continued.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1914												
1	2.8	0.2	0.8	2.6	2.9	5.4	10.1	5.0	0.7	0.2	0.8	0.6
2	1.4	.5	.3	2.8	5.6	5.2	11.2	5.2	.6	.1	.4	2.8
3	.7	.6	.4	2.8	6.7	4.9	11.9	4.1	.5	.0	.5	3.4
4	.5	.6	.7	2.6	5.7	4.6	12.2	3.9	.5	— .2	.5	3.2
5	.3	.6	.9	2.4	5.0	4.2	12.0	4.2	.4	— .2	.6	2.2
6	.3	.6	1.0	2.3	5.0	3.8	11.4	4.8	.4	— .2	.8	1.6
7	.2	.4	.9	2.2	6.5	3.6	9.2	4.0	.4	— .2	.7	1.3
8	.1	.1	.9	2.0	7.2	3.4	8.2	3.7	.4	— .2	.6	1.0
9	.0	.0	.9	1.7	8.0	3.2	8.4	3.8	.4	— .2	.5	.6
10	.0	— .2	1.2	1.7	7.9	3.0	8.5	4.2	.4	— .2	.6	.5
11	— .1	— .2	1.5	1.6	7.2	3.0	7.8	4.2	.4	— .1	.6	.4
12	— .2	.0	1.8	1.5	6.5	3.2	7.9	4.1	.4	— .1	.5	.4
13	— .3	.0	1.9	1.5	6.4	4.0	8.2	3.8	.6	— .1	.5	.1
14	— .3	.0	1.9	1.4	6.0	4.5	8.2	3.5	.6	— .2	.9	.0
15	— .3	.0	1.6	1.3	5.8	5.1	9.5	3.2	.6	— .2	1.1	— .2
16	— .3	.0	1.5	1.4	5.6	5.8	10.8	2.9	.6	1.0	1.2	— .2
17	— .4	.2	1.5	1.6	5.6	7.1	11.2	2.8	.6	1.4	1.0	— .2
18	— .6	.2	1.4	1.8	5.6	7.0	11.2	2.6	.6	.8	.9	— .1
19	— .6	.2	.8	1.7	5.4	6.2	10.7	2.4	.6	2.5	1.0	.0
20	— .6	.2	.8	1.5	5.0	5.4	9.6	2.1	.8	4.9	1.4	— .1
21	— .6	.1	.6	1.2	4.6	4.6	9.3	2.0	.4	4.7	1.4	— .1
22	— .5	.1	.5	1.0	4.4	4.4	9.2	1.9	.4	3.8	1.0	— .1
23	— .4	.2	.5	.8	4.2	4.4	10.0	1.7	.6	2.6	.8	— .1
24	— .3	.4	.5	.8	4.8	4.6	10.5	1.5	1.5	2.0	.7	— .2
25	— .4	.4	.8	.8	5.6	4.6	10.6	1.4	1.8	1.4	.6	— .3
26	— .2	.5	.8	.8	6.4	4.4	9.1	1.4	1.4	.9	.6	— .3
27	— .2	.5	.7	.9	6.4	4.4	8.4	1.2	1.2	.8	.6	.0
28	.0	.4	.....	1.0	5.8	4.3	6.6	1.0	.8	.6	.6	.0
29	.0	.3	.....	1.1	.....	4.4	5.9	1.0	.5	.6	.4	.0
30	.0	.3	.....	1.2	.....	5.3	5.5	.8	.3	.6	.4	— .2
31	.0	.....	.....	1.6	.....	3.6	.....	.8	.....	.4	.4	.....
1915												
1	—0.3	0.4	0.7	17.5	14.0	5.8	4.6	2.0	2.6	1.3	1.3	2.0
2	— .3	.4	.8	16.2	16.3	6.0	4.6	2.0	2.7	1.7	1.3	2.6
3	— .3	.2	.7	13.6	16.9	5.6	4.6	2.0	2.7	1.7	1.2	2.6
4	— .3	.0	1.0	11.6	17.0	5.4	4.5	1.9	2.9	2.5	1.0	2.4
5	— .4	.0	3.5	9.5	16.7	5.5	4.4	1.9	3.2	3.3	1.0	2.0
6	— .4	— .1	6.9	8.2	16.3	6.2	4.2	1.7	4.3	4.8	.9	2.4
7	— .4	— .1	9.5	7.5	16.2	6.4	4.0	2.4	4.9	5.7	.9	3.2
8	— .4	— .1	10.9	7.9	15.6	7.6	3.6	2.8	4.2	7.1	.9	3.9
9	— .4	— .1	11.1	8.4	14.4	7.6	3.4	3.4	3.7	7.7	1.0	4.2
10	— .4	— .1	10.4	8.8	12.8	7.0	3.2	3.6	3.2	7.3	1.1	3.7
11	— .4	— .1	8.2	9.2	10.4	6.6	3.1	4.3	3.2	6.0	1.3	4.2
12	— .3	— .1	6.9	10.2	9.0	6.2	3.4	5.5	3.2	5.2	1.7	3.7
13	.0	— .2	5.6	11.4	7.9	5.5	4.0	5.2	3.2	4.4	1.0	3.2
14	.2	— .2	4.4	11.4	7.2	5.3	4.6	4.6	3.0	4.0	1.0	2.5
15	.3	— .2	3.5	10.8	6.8	4.8	5.0	3.6	2.8	3.6	.9	2.0
16	.4	— .2	3.2	10.5	6.6	4.5	5.1	3.4	2.4	3.3	.9	1.6
17	.2	— .2	3.1	10.5	6.2	4.6	5.0	3.2	2.2	4.7	.9	1.4
18	.2	— .2	3.0	11.2	6.0	4.6	4.5	3.0	2.3	4.3	.9	1.2
19	.8	— .2	3.0	12.0	5.8	4.5	4.0	2.9	3.6	4.5	1.4	1.1
20	5.2	— .1	2.4	12.0	5.8	4.4	3.8	2.6	4.0	4.2	2.2	1.0
21	5.9	— .2	2.7	12.0	5.8	4.4	3.6	2.2	3.6	3.7	2.5	1.0
22	5.0	.4	2.8	12.0	5.5	4.5	3.4	2.0	3.2	3.3	2.4	.9
23	4.0	.8	3.8	11.9	5.1	4.5	3.0	1.8	2.8	2.9	2.6	.9
24	3.2	.8	5.2	12.1	5.0	4.6	2.8	1.8	2.4	3.2	3.0	.8
25	2.2	.6	9.4	11.8	4.9	4.5	2.6	1.6	2.0	3.6	3.0	.8
26	1.6	.6	13.0	9.8	4.9	4.4	2.4	1.5	2.0	3.7	2.8	.7
27	1.2	.4	15.6	10.0	5.0	4.4	2.2	1.5	2.1	3.4	2.6	.8
28	1.0	.4	16.9	10.8	5.4	4.2	2.0	1.6	2.0	2.9	2.6	.9
29	.8	.3	17.4	11.2	.....	4.0	2.0	1.9	1.6	2.9	2.3	.8
30	.6	.4	18.9	10.8	.....	3.9	2.0	2.4	1.2	2.0	2.1	1.0
31	.5	.....	19.2	10.1	.....	4.2	.....	2.6	.....	1.7	2.4	.....

Daily discharge, in second-feet, of Tennessee River at Florence, Ala.—Continued.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1895												
1	11,000	10,500	11,500	48,500	75,400	47,600	69,900	48,500	47,600	17,300	47,600	21,300
2	11,000	10,500	11,500	39,400	68,800	52,300	64,500	47,600	42,100	22,000	36,000	22,700
3	10,500	11,000	11,500	32,600	64,500	77,700	59,300	45,700	37,700	25,600	28,600	22,700
4	10,500	11,500	11,500	31,000	63,500	89,400	56,300	43,000	35,100	28,600	24,100	21,300
5	9,990	12,000	11,500	24,800	62,400	115,000	52,300	41,200	32,600	30,200	22,700	21,300
6	9,990	12,600	11,500	23,400	61,400	132,000	48,500	39,400	29,400	29,400	21,300	20,000
7	11,000	12,600	11,000	24,300	62,400	139,000	49,400	41,200	28,600	34,300	20,600	19,300
8	11,500	12,000	11,500	46,600	67,700	136,000	60,400	46,600	27,100	40,300	20,000	19,300
9	11,500	12,000	11,500	58,300	64,500	117,000	77,700	49,400	27,100	47,600	18,600	19,300
10	11,500	12,000	12,000	78,300	58,300	89,400	91,800	54,300	29,400	49,400	19,300	20,000
11	11,500	11,500	13,100	127,000	53,300	77,700	91,800	60,400	30,200	49,400	20,000	22,000
12	11,000	11,500	14,300	160,000	46,600	69,900	91,800	62,400	28,600	43,900	20,000	18,600
13	10,500	11,500	16,700	176,000	41,200	69,900	94,200	64,500	26,300	38,500	18,600	17,300
14	10,500	11,000	26,300	189,000	37,700	87,000	89,400	62,400	24,100	34,300	18,600	16,100
15	10,500	11,000	52,300	197,000	35,100	99,200	76,600	61,400	22,700	31,800	18,600	16,100
16	10,500	11,000	68,800	206,000	34,300	102,000	66,600	60,400	22,000	31,800	18,600	16,100
17	11,500	11,500	68,800	213,000	33,400	102,000	61,400	60,400	21,300	27,100	18,600	18,000
18	13,100	11,000	60,400	181,000	34,300	96,700	58,300	56,300	22,000	26,300	18,000	19,300
19	13,100	11,000	49,400	134,000	35,100	89,400	56,300	52,300	22,700	25,600	18,000	17,300
20	12,600	11,000	39,400	109,000	35,100	123,000	68,800	46,600	22,700	24,800	20,000	16,100
21	11,500	11,000	31,000	107,000	37,700	157,000	80,000	44,800	22,700	23,400	28,600	16,100
22	11,000	11,000	27,900	117,000	40,300	160,000	78,800	44,800	21,300	22,700	39,400	15,500
23	11,000	11,000	23,400	113,000	43,000	161,000	71,000	44,800	20,000	21,300	42,100	14,300
24	11,000	11,000	22,000	104,000	44,800	172,000	61,400	43,000	19,300	19,300	38,500	14,300
25	11,000	11,000	20,000	97,900	47,600	173,000	55,300	37,700	19,300	18,600	35,100	14,300
26	11,000	11,500	18,600	99,200	48,500	172,000	52,300	41,200	19,300	18,000	31,800	13,700
27	10,500	11,500	18,600	103,000	50,400	155,000	53,300	48,500	18,600	17,300	29,400	13,100
28	11,000	11,500	22,700	97,900	48,500	128,000	53,300	60,400	18,600	17,300	29,400	12,600
29	11,000	11,500	29,400	90,600	———	102,000	54,300	62,400	18,000	19,300	27,100	12,000
30	10,500	11,500	39,400	84,600	.....	85,800	52,300	58,300	17,300	50,400	24,100	11,500
31	10,500	———	50,400	80,000	———	75,400	.....	53,300	.....	59,300	22,000	———
1896												
1	11,500	11,000	12,000	40,300	69,900	35,100	80,000	41,200	19,300	16,700	46,600	20,600
2	11,500	11,000	13,100	37,700	134,000	33,400	134,000	38,500	18,600	16,700	38,500	18,000
3	11,500	11,000	13,100	36,800	148,000	33,400	178,000	34,300	18,000	18,000	34,300	16,100
4	11,500	11,000	13,700	36,000	155,000	31,800	203,000	32,600	18,000	18,600	31,000	14,300
5	11,000	11,500	13,700	35,100	145,000	30,200	210,000	32,600	22,000	19,300	28,600	14,300
6	11,000	11,500	13,100	35,100	135,000	31,000	216,000	31,000	29,400	20,600	27,900	13,700
7	11,000	12,000	13,100	33,400	129,000	33,400	230,000	31,000	31,000	21,300	25,600	13,100
8	11,000	12,000	13,100	32,600	119,000	36,800	248,000	31,800	29,400	22,000	26,300	12,000
9	11,000	12,000	13,100	33,400	132,000	33,400	254,000	31,000	28,600	23,400	27,100	12,000
10	11,000	12,600	13,100	30,200	139,000	31,800	235,000	29,400	26,300	28,600	25,600	12,000
11	11,000	12,600	13,100	29,400	132,000	31,000	167,000	27,900	26,300	47,600	22,000	15,500
12	11,000	12,600	13,100	27,900	121,000	31,000	96,700	26,300	28,600	94,200	20,600	14,300
13	10,500	12,000	12,600	25,600	119,000	30,200	68,800	23,400	38,500	123,000	19,300	14,900
14	10,500	12,000	12,600	24,100	127,000	30,200	56,300	22,000	38,500	125,000	18,000	14,300
15	11,000	12,600	13,700	23,400	128,000	31,800	48,500	20,600	32,600	108,000	18,000	13,100
16	11,000	13,700	13,700	22,700	124,000	47,600	44,800	19,300	28,600	87,000	18,000	13,100
17	11,000	14,300	13,700	21,300	121,000	74,300	41,200	18,600	24,100	80,000	18,000	13,100
18	11,000	14,300	14,300	20,600	116,000	71,000	39,400	18,000	22,000	78,300	18,000	13,100
19	11,000	14,300	13,700	20,600	103,000	88,200	36,000	17,300	20,000	81,200	17,300	12,000
20	11,000	13,100	14,900	20,000	88,200	127,000	34,300	17,300	19,300	88,200	16,700	12,000
21	11,000	13,100	13,700	19,300	72,100	141,000	32,600	17,300	18,600	80,000	16,100	11,500
22	11,000	13,100	14,300	20,000	61,400	141,000	31,800	16,700	18,000	64,500	15,500	12,000
23	11,000	13,100	14,300	22,000	53,300	127,000	31,800	16,700	19,300	50,400	14,900	11,500
24	11,000	12,000	14,300	26,300	46,600	105,000	31,000	16,700	21,300	43,900	14,900	11,500
25	11,000	12,000	17,300	30,200	43,000	90,600	29,400	17,300	20,600	43,900	14,300	11,000
26	11,000	12,000	39,400	39,400	38,500	78,800	29,400	19,300	20,600	54,300	14,300	11,000
27	10,500	12,000	71,000	49,400	36,800	72,100	34,300	22,000	19,300	52,300	14,300	11,000
28	10,500	12,600	62,400	55,300	35,100	64,500	41,200	24,100	21,300	50,400	14,900	12,000
29	10,500	12,600	45,700	55,300	34,300	59,300	39,400	24,800	19,300	66,600	14,900	13,100
30	10,500	12,600	42,100	49,400	———	56,300	39,400	23,400	17,300	69,900	15,500	14,300
31	11,500	.....	41,200	43,900	.....	63,500	.....	20,600	.....	58,300	16,700	———

Daily discharge, in second-feet, of Tennessee River at Florence, Ala.—Continued.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1897												
1	13,100	11,500	58,300	18,000	29,400	203,000	89,400	41,200	26,300	33,400	35,100	14,900
2	13,100	11,500	65,600	17,300	37,700	208,000	109,000	40,300	25,600	31,000	30,200	14,900
3	13,100	11,500	82,300	16,700	41,200	181,000	107,000	39,400	25,600	27,900	26,300	13,700
4	14,300	12,000	90,600	18,000	59,300	120,000	157,000	40,300	26,300	25,600	23,400	13,100
5	14,900	12,000	89,400	20,600	78,800	91,800	195,000	47,600	25,600	24,100	22,700	13,100
6	15,500	12,600	72,100	21,300	84,600	99,200	210,000	58,300	25,600	22,700	22,000	13,100
7	16,100	12,600	56,300	21,300	89,400	145,000	215,000	59,300	25,600	20,600	22,700	12,600
8	16,100	12,000	45,700	21,300	88,200	161,000	210,000	55,300	24,800	21,300	21,300	12,000
9	14,900	12,000	37,700	21,300	93,000	168,000	220,000	49,400	24,800	22,000	22,000	11,500
10	14,300	14,300	34,300	21,300	99,200	187,000	225,000	46,600	25,600	21,300	23,400	11,500
11	14,900	20,000	31,000	20,600	111,000	208,000	218,000	45,700	25,600	22,700	24,100	11,500
12	13,700	26,300	29,400	20,000	115,000	254,000	195,000	47,600	24,100	25,600	29,400	11,500
13	12,000	37,700	28,600	20,000	107,000	275,000	157,000	67,700	26,300	24,100	30,200	11,500
14	11,000	27,900	28,600	20,000	89,400	299,000	124,000	83,500	31,800	24,100	27,900	11,000
15	11,000	36,000	34,300	23,400	81,200	308,000	103,000	119,000	31,000	25,600	24,100	11,000
16	11,000	42,100	38,500	27,100	77,700	334,000	91,800	146,000	27,100	25,600	22,700	10,500
17	11,000	40,300	36,000	33,400	77,700	352,000	88,500	152,000	25,600	24,100	20,000	10,500
18	11,000	35,100	32,600	52,300	75,400	375,000	78,800	151,000	22,700	22,700	18,600	9,990
19	12,000	30,200	29,400	60,400	69,900	481,000	76,600	132,000	21,300	27,100	16,700	9,990
20	12,000	27,900	27,100	61,400	63,500	460,000	78,200	102,000	20,600	37,700	17,300	9,990
21	11,500	24,100	26,300	58,300	58,300	420,000	67,700	72,100	20,000	42,100	18,600	9,990
22	12,000	22,000	28,600	62,400	58,300	392,000	63,500	58,300	19,300	38,500	18,600	9,500
23	12,000	19,300	29,400	62,400	61,400	355,000	57,300	48,500	20,000	38,500	19,300	9,500
24	12,000	18,000	27,900	59,300	88,200	334,000	53,300	43,900	24,800	37,700	18,600	9,500
25	12,000	16,700	26,300	56,300	128,000	312,000	49,400	39,400	26,300	36,000	17,300	9,500
26	12,000	16,100	24,800	52,300	158,000	290,000	45,700	36,800	27,900	36,800	18,600	9,500
27	12,000	15,500	23,400	48,500	175,000	268,000	43,900	35,100	28,600	45,700	19,300	9,500
28	11,500	20,600	20,600	43,000	193,000	240,000	42,100	33,400	32,600	65,600	18,600	9,500
29	11,500	52,300	20,600	38,500	.....	162,000	40,300	30,200	32,600	72,100	17,300	9,500
30	11,500	52,300	19,300	34,300	.....	117,000	41,200	27,900	31,800	58,300	16,100	9,500
31	11,500	.....	18,600	31,000	.....	94,200	.....	27,100	.....	43,900	16,100	.....
1898												
1	9,500	11,500	9,990	31,000	102,000	25,600	61,400	50,400	27,100	16,100	36,000	22,700
2	9,500	11,000	11,000	27,900	78,800	25,600	95,400	51,400	24,100	16,100	47,600	22,000
3	9,500	11,000	12,000	27,100	63,500	24,100	119,000	49,400	21,300	16,100	52,300	20,600
4	9,500	11,000	13,100	24,800	55,300	23,400	124,000	44,800	20,000	14,900	50,400	20,600
5	9,500	10,500	20,000	22,700	47,600	22,700	119,000	40,300	20,000	14,900	44,800	45,700
6	9,500	10,500	21,300	22,700	43,900	21,300	117,000	37,700	18,600	14,900	36,000	104,000
7	9,020	11,000	22,000	22,000	40,300	21,300	108,000	34,300	17,300	14,300	33,400	131,000
8	9,020	11,000	25,600	20,600	36,800	21,300	102,000	33,400	16,700	14,300	62,400	139,000
9	9,020	11,000	24,800	20,000	34,300	22,700	96,700	31,800	16,100	14,300	84,600	123,000
10	9,020	11,500	23,400	19,300	31,800	22,700	85,800	28,600	14,900	14,300	89,400	88,200
11	8,550	12,000	22,000	20,600	31,800	22,000	77,700	27,900	14,300	14,300	84,600	66,600
12	9,020	11,500	19,300	24,100	30,200	21,300	74,300	27,900	13,700	15,500	74,300	55,300
13	9,020	11,500	19,300	33,400	28,600	22,700	74,300	27,100	13,700	16,700	66,600	46,600
14	9,020	11,000	16,700	43,900	28,600	22,700	76,600	28,600	13,100	18,600	77,700	39,400
15	9,020	11,000	16,700	119,000	27,100	24,800	74,300	28,600	13,700	19,300	91,800	35,100
16	9,020	11,000	16,100	151,000	26,300	42,100	72,100	27,100	14,300	18,600	102,000	31,000
17	9,500	11,500	16,100	136,000	25,600	43,900	69,900	25,600	14,300	18,000	96,700	27,900
18	9,990	11,500	17,300	107,000	24,100	40,300	68,800	24,100	13,700	18,000	77,700	24,800
19	11,000	11,000	20,000	112,000	24,100	49,400	76,600	23,400	13,700	20,000	61,400	24,100
20	11,000	11,000	25,600	151,000	24,100	46,600	97,900	23,400	14,300	24,100	48,500	23,400
21	11,500	10,500	48,500	129,000	23,400	44,800	97,900	22,700	14,300	28,600	41,200	22,000
22	11,500	9,990	62,400	125,000	22,700	45,700	88,200	22,700	20,000	25,600	36,000	22,000
23	11,500	9,990	71,000	141,000	22,700	43,900	81,200	22,000	25,600	22,700	36,000	21,300
24	12,000	9,990	77,700	139,000	22,000	38,500	72,100	21,300	29,400	21,300	32,600	20,600
25	12,600	9,990	88,200	132,000	22,000	38,500	65,600	21,300	36,800	20,000	31,000	24,100
26	12,000	9,990	77,700	145,000	22,700	36,000	65,600	20,000	31,800	20,000	29,400	27,900
27	12,000	9,990	63,500	157,000	24,100	32,600	61,400	20,000	27,900	21,300	26,300	29,400
28	12,000	9,990	54,300	157,000	25,600	32,600	59,300	20,000	24,100	26,300	24,100	37,700
29	12,000	9,990	44,800	157,000	.....	45,700	56,300	23,400	20,600	27,100	22,700	37,700
30	12,000	9,990	39,400	151,000	.....	55,300	56,300	28,600	17,300	33,400	21,300	32,600
31	11,500	.....	34,300	134,000	.....	57,300	.....	30,200	.....	36,800	22,000	.....

Daily discharge, in second-feet, of Tennessee River at Florence, Ala.—Continued.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1899												
1	26,300	31,800	33,400	33,400	46,600	173,000	164,000	64,500	25,600	20,600	26,300	11,500
2	23,400	29,400	31,800	32,600	48,500	165,000	165,000	58,300	25,600	20,600	26,300	12,000
3	21,300	26,300	31,000	31,000	50,400	164,000	167,000	54,300	25,600	19,300	27,900	12,000
4	20,000	25,600	31,000	30,200	69,900	154,000	162,000	50,400	24,800	19,300	24,800	13,100
5	19,300	24,800	32,600	33,400	142,000	136,000	143,000	46,600	24,800	19,300	22,000	14,300
6	19,300	23,400	33,400	66,600	189,000	132,000	120,000	44,800	25,600	18,000	19,300	15,500
7	38,500	23,400	33,400	117,000	220,000	142,000	113,000	42,100	27,100	17,300	18,000	16,700
8	90,600	22,700	36,000	154,000	228,000	157,000	131,000	44,800	26,300	16,700	16,700	16,100
9	99,200	22,700	38,500	161,000	223,000	168,000	145,000	53,300	24,800	15,500	16,700	15,500
10	82,300	23,400	38,500	154,000	240,000	178,000	151,000	60,400	24,800	15,500	16,100	14,300
11	64,500	24,800	36,800	157,000	250,000	179,000	151,000	64,500	22,700	16,700	15,500	13,700
12	52,300	25,600	34,300	145,000	257,000	158,000	139,000	69,900	21,300	16,700	15,500	13,100
13	46,600	26,300	32,600	117,000	257,000	128,000	123,000	73,200	22,000	16,100	15,500	12,600
14	41,200	27,100	31,000	94,200	264,000	127,000	107,000	69,900	22,700	15,500	15,500	12,600
15	36,000	30,200	29,400	80,000	238,000	213,000	94,200	64,500	27,100	15,500	14,300	12,600
16	34,300	29,400	26,300	71,000	165,000	275,000	83,500	61,400	31,000	14,900	14,300	12,600
17	32,600	27,900	24,800	64,500	107,000	290,000	75,400	61,400	36,000	14,900	14,300	12,600
18	30,200	26,300	24,800	62,400	89,400	304,000	71,000	59,300	36,000	14,300	15,500	13,100
19	29,400	26,300	23,400	60,400	84,600	342,000	66,600	57,300	36,600	13,700	16,100	13,100
20	30,200	26,300	26,300	58,300	88,200	352,000	62,400	50,400	37,700	13,700	15,500	12,000
21	36,000	27,900	34,300	54,300	96,700	346,000	58,300	44,800	33,400	13,700	15,500	12,000
22	45,700	31,000	42,100	52,300	99,200	340,000	56,300	43,000	29,400	14,900	14,900	12,000
23	57,300	39,400	46,600	41,200	96,700	332,000	59,300	38,500	26,300	17,300	14,300	11,500
24	57,300	43,900	43,000	44,800	89,400	325,000	64,500	36,000	24,800	18,600	13,700	11,500
25	50,400	47,600	39,400	60,400	84,600	321,000	87,000	34,300	22,000	20,000	13,100	11,000
26	46,600	46,600	37,700	65,600	104,000	316,000	99,200	31,800	20,600	20,600	13,100	11,000
27	45,700	44,800	36,000	63,500	157,000	308,000	94,200	31,000	19,300	24,100	12,600	11,000
28	45,700	41,200	36,000	63,500	200,000	297,000	90,600	29,400	18,600	24,100	12,000	12,000
29	43,000	37,700	36,000	56,300	.....	281,000	82,300	28,600	18,600	22,000	12,000	12,000
30	37,700	33,400	35,100	50,400	.....	264,000	72,100	26,300	18,000	22,000	12,000	11,500
31	34,300	.....	34,300	46,600	.....	167,000	.....	26,300	.....	24,100	11,500	.....
1900												
1	11,500	10,500	14,900	35,100	29,400	80,000	71,000	62,400	24,800	94,200	52,300	17,300
2	11,000	10,500	14,300	31,000	27,900	83,500	64,500	59,300	26,300	89,400	47,600	16,700
3	11,000	10,500	13,700	27,100	26,300	73,200	58,300	52,300	29,400	83,500	41,200	16,700
4	11,000	10,500	13,700	23,400	24,100	77,700	56,300	47,600	32,600	81,200	36,000	15,000
5	11,000	10,500	12,600	20,000	26,300	84,600	56,300	41,200	36,000	68,800	31,000	14,300
6	11,000	11,000	13,100	17,300	29,400	91,800	56,300	39,400	46,600	56,300	27,100	14,300
7	11,000	11,000	13,100	16,700	31,000	104,000	60,400	37,700	52,300	48,500	24,100	14,300
8	11,000	11,000	13,100	16,700	31,000	115,000	62,400	36,000	56,300	42,100	22,000	14,300
9	11,000	11,500	12,600	16,700	41,200	117,000	62,400	36,000	57,300	39,400	19,300	13,700
10	10,500	11,500	13,100	18,000	54,300	123,000	58,300	34,300	60,400	36,000	18,000	13,100
11	11,000	11,500	25,600	24,100	58,300	129,000	94,200	32,600	55,300	29,400	16,700	12,600
12	11,000	12,000	38,500	47,600	68,800	131,000	117,000	31,000	47,600	31,000	16,700	12,000
13	11,500	12,000	46,600	57,300	89,400	127,000	117,000	31,000	44,800	31,000	15,500	11,500
14	12,000	12,000	58,300	71,000	123,000	115,000	109,000	28,600	41,200	29,400	14,900	11,500
15	12,600	12,000	64,500	76,600	142,000	96,700	89,400	27,900	49,400	27,900	14,300	11,500
16	13,100	11,500	62,400	74,300	160,000	82,300	77,700	26,300	47,600	24,800	14,300	12,000
17	13,100	11,500	56,300	67,700	168,000	73,200	120,000	25,600	50,400	24,100	14,300	13,100
18	13,100	11,500	48,500	62,400	165,000	65,600	223,000	24,800	52,300	23,400	14,300	14,300
19	12,000	11,000	46,600	61,400	154,000	62,400	240,000	24,100	52,300	24,100	16,100	18,600
20	11,500	11,000	53,300	72,100	112,000	75,400	243,000	23,400	55,300	24,100	15,500	22,000
21	11,500	11,000	46,600	85,800	85,800	90,600	220,000	23,400	62,400	23,400	14,900	24,800
22	11,500	11,500	43,900	94,200	68,800	91,200	175,000	22,700	65,600	22,000	14,900	25,600
23	11,500	11,500	44,800	87,000	68,800	99,200	155,000	24,100	73,200	20,600	15,500	24,800
24	11,000	11,000	58,300	77,700	71,000	117,000	143,000	27,900	91,800	20,600	15,500	21,300
25	11,000	12,000	61,400	66,600	73,200	129,000	125,000	26,300	94,200	20,000	14,300	19,300
26	11,000	12,000	65,600	58,300	73,200	128,000	109,000	24,100	96,700	20,000	14,300	16,700
27	11,000	13,100	62,400	50,400	62,400	115,000	99,200	22,000	125,000	27,900	13,700	14,900
28	11,000	14,300	54,300	43,900	71,000	99,200	84,600	22,000	142,000	31,000	14,300	14,900
29	11,000	15,500	49,400	39,400	.....	89,400	73,200	21,300	131,000	30,200	15,500	14,900
30	10,500	15,500	44,800	36,000	.....	82,300	66,600	23,400	109,000	31,800	18,000	15,500
31	10,500	.....	41,200	31,800	.....	78,800	.....	24,100	.....	46,600	19,300	.....

Daily discharge, in second-feet, of Tennessee River at Florence, Ala.—Continued.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1901												
1	14,900	25,600	107,000	36,000	53,300	26,300	148,000	105,000	103,000	46,600	16,100	71,000
2	14,300	22,000	91,800	37,700	54,300	26,300	145,000	91,800	95,400	41,200	16,100	68,800
3	14,300	19,300	67,700	39,400	65,600	27,900	145,000	78,800	88,200	36,800	16,100	67,700
4	14,300	18,000	48,500	41,200	104,000	27,900	151,000	67,700	78,800	36,000	16,100	65,600
5	13,100	16,700	41,200	40,300	113,000	27,900	165,000	59,300	67,700	36,800	16,100	64,500
6	12,600	16,700	39,400	39,400	109,000	27,900	176,000	54,300	59,300	36,800	17,300	65,600
7	12,600	18,600	39,400	36,000	105,000	31,000	181,000	49,400	52,300	35,100	18,600	61,400
8	15,500	*20,000	43,900	34,300	97,900	32,600	178,000	43,900	47,600	33,400	16,100	51,400
9	15,500	22,000	54,300	31,000	89,400	36,000	162,000	48,500	48,500	31,800	16,100	44,800
10	13,700	23,400	58,300	31,000	87,000	77,700	134,000	41,200	50,400	30,200	43,900	40,300
11	15,500	23,400	56,300	46,600	77,700	125,000	102,000	39,400	49,400	30,200	67,700	36,300
12	26,300	20,600	48,500	116,000	69,900	131,000	81,200	39,400	49,400	33,400	60,400	33,400
13	37,700	19,300	43,000	160,000	64,500	125,000	69,900	37,700	55,300	36,800	50,400	33,400
14	31,800	18,000	36,800	178,000	58,300	112,000	64,500	36,800	49,400	33,400	40,300	31,000
15	29,400	16,700	32,600	189,000	56,300	91,800	62,400	36,000	43,900	29,400	39,400	38,500
16	24,800	16,100	31,000	193,000	56,300	74,300	68,800	35,100	41,200	26,300	69,900	55,300
17	20,000	15,500	27,900	193,000	52,300	62,400	72,100	33,400	40,300	24,100	149,000	63,500
18	18,000	14,900	26,300	181,000	48,500	53,300	78,800	32,600	45,700	23,400	178,000	80,000
19	15,500	14,300	24,800	145,000	44,800	48,500	104,000	31,800	55,300	22,700	205,000	76,600
20	14,900	14,900	23,400	95,400	39,400	44,800	149,000	31,800	60,400	22,700	223,000	78,800
21	14,300	18,000	24,800	71,000	39,400	44,800	178,000	40,300	59,300	22,700	231,000	76,600
22	14,900	19,300	29,400	58,300	36,800	44,800	189,000	63,500	55,300	22,000	228,000	67,700
23	15,500	18,000	29,400	53,300	34,300	43,000	195,000	100,000	51,400	22,700	226,000	58,300
24	16,700	17,300	32,600	52,300	32,600	39,400	192,000	135,000	50,400	22,700	211,000	51,400
25	16,700	19,300	36,000	68,500	32,600	40,300	190,000	155,000	59,300	22,000	192,000	43,900
26	15,500	33,400	38,500	62,400	30,200	44,800	184,000	170,000	57,300	22,000	170,000	38,500
27	13,100	48,500	39,400	62,400	29,400	60,400	172,000	185,000	50,400	20,000	145,000	35,100
28	35,100	65,600	39,400	58,300	27,900	87,000	151,000	192,000	56,300	18,600	116,000	33,400
29	43,000	99,200	36,000	54,300	.....	123,000	131,000	192,000	59,300	17,300	93,000	35,100
30	38,500	109,000	34,300	52,300	.....	139,000	117,000	167,000	58,300	16,700	83,500	36,800
31	32,600	.....	32,600	52,300	.....	152,000	.....	132,000	.....	16,100	76,600	.....
1902												
1	33,400	16,700	15,500	208,000	184,000	148,000	216,000	36,800	25,600	21,300	17,300	12,000
2	31,800	16,700	15,500	220,000	192,000	173,000	210,000	36,800	26,300	27,100	16,100	12,600
3	30,200	16,100	16,100	233,000	198,000	184,000	203,000	41,200	25,600	45,700	16,100	12,600
4	30,200	16,100	16,100	236,000	197,000	200,000	216,000	62,400	23,400	59,300	14,900	13,700
5	30,200	16,100	16,100	268,000	193,000	226,000	210,000	66,600	21,300	58,300	14,300	13,100
6	30,200	16,100	16,100	272,000	185,000	247,000	167,000	60,400	20,600	45,700	14,300	11,500
7	28,600	16,100	16,100	263,000	172,000	264,000	125,000	49,400	20,600	40,300	14,300	11,500
8	28,600	16,100	16,100	213,000	155,000	273,000	103,000	42,100	20,600	33,400	14,900	11,500
9	27,900	16,100	16,700	136,000	123,000	273,000	102,000	38,500	20,000	28,600	14,900	11,500
10	27,100	16,100	17,300	90,600	89,400	261,000	94,200	36,800	18,600	24,100	14,900	11,500
11	24,800	16,100	18,600	82,300	73,200	236,000	87,000	36,800	18,600	22,700	13,700	11,500
12	24,100	16,100	19,300	60,400	63,500	189,000	80,000	33,400	18,600	21,300	13,700	11,500
13	22,700	16,100	22,000	53,300	58,300	154,000	75,400	31,800	18,600	20,000	13,700	11,500
14	22,700	16,100	27,900	49,400	54,300	120,000	68,800	30,200	18,600	19,300	14,900	11,500
15	22,700	16,100	77,700	46,600	52,300	102,000	64,500	28,600	18,600	18,600	14,900	11,500
16	24,100	15,500	136,000	43,000	52,300	93,000	62,400	27,900	18,600	20,000	14,900	12,000
17	24,800	15,500	175,000	40,300	51,400	99,200	58,300	28,600	18,000	24,100	14,300	12,600
18	24,800	15,500	187,000	38,500	48,500	103,000	56,300	28,600	17,300	24,100	13,700	12,600
19	24,800	15,500	190,000	38,500	46,600	112,000	54,300	27,900	17,300	22,000	12,600	12,600
20	24,100	15,500	190,000	43,000	44,800	115,000	51,400	27,900	17,300	20,000	12,000	12,600
21	22,700	15,500	176,000	45,700	43,900	111,000	50,400	27,100	20,000	18,600	12,000	12,000
22	22,000	14,900	131,000	55,300	44,800	99,200	48,500	27,100	22,700	16,700	12,000	11,500
23	21,300	14,900	88,500	58,300	46,600	96,700	47,600	25,600	24,100	16,100	12,000	11,500
24	20,000	14,900	66,600	60,400	49,400	82,300	46,600	25,600	24,100	15,500	12,000	11,000
25	19,300	15,500	54,300	58,300	56,300	71,000	44,800	26,300	22,700	15,500	12,000	12,000
26	19,300	15,500	55,300	59,300	68,300	68,300	43,000	26,300	21,300	15,500	12,000	14,300
27	18,600	15,500	61,400	75,400	76,600	67,700	41,200	26,300	21,300	14,900	12,000	15,500
28	18,000	15,500	82,300	96,700	102,000	84,600	41,200	25,600	20,000	14,900	11,500	16,100
29	18,000	15,500	125,000	97,900	.....	254,000	38,500	24,800	21,300	14,300	12,000	19,300
30	18,000	15,500	172,000	128,000	.....	243,000	37,700	22,700	21,300	14,900	12,600	22,000
31	17,300	.....	193,000	162,000	.....	235,000	.....	24,100	.....	14,900	12,000	.....

Daily discharge, in second-feet, of Tennessee River at Florence, Ala.—Continued.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1903												
1	20,600	9,500	47,600	37,700	39,400	165,000	142,000	64,500	52,300	29,400	14,900	12,000
2	21,300	9,500	48,500	40,300	38,500	192,000	139,000	63,500	64,500	29,400	14,900	11,500
3	20,600	9,500	52,300	53,300	44,800	205,000	139,000	60,400	68,300	27,100	16,100	11,000
4	20,600	9,020	55,300	54,300	87,000	216,000	132,000	56,300	81,200	26,300	18,000	11,000
5	20,600	9,500	62,400	53,300	115,000	226,000	120,000	52,300	107,000	24,800	17,300	11,000
6	20,600	9,990	72,100	54,300	138,000	236,000	105,000	48,500	102,000	23,400	19,300	11,000
7	18,000	9,990	66,600	56,300	162,000	230,000	97,900	44,800	94,200	23,400	26,300	11,000
8	16,700	9,990	60,400	54,300	189,000	223,000	100,000	43,900	87,000	24,100	26,300	11,000
9	15,500	9,990	55,300	58,300	200,000	206,000	119,000	43,900	82,300	24,800	27,900	10,500
10	14,300	9,990	49,400	55,300	189,000	200,000	148,000	41,200	84,600	24,100	26,300	10,500
11	15,500	9,990	44,800	55,300	195,000	201,000	172,000	39,400	78,300	24,100	22,000	10,500
12	15,500	11,000	39,400	57,300	200,000	203,000	184,000	38,500	73,200	24,800	23,400	10,500
13	18,000	11,500	34,300	56,300	187,000	203,000	200,000	37,700	67,700	28,600	22,000	9,990
14	15,500	11,500	31,000	55,300	175,000	200,000	226,000	42,100	61,400	28,600	19,300	9,990
15	20,000	11,500	31,000	54,300	173,900	185,000	221,000	60,400	56,300	29,400	18,000	9,990
16	18,000	11,500	59,300	57,300	172,000	162,000	210,000	57,300	49,400	33,400	18,000	9,990
17	17,300	11,500	60,400	54,300	203,000	141,000	193,000	45,700	44,800	35,100	22,000	9,990
18	18,000	11,500	54,300	48,500	215,000	120,000	181,000	43,000	42,100	35,100	24,800	9,990
19	19,300	11,000	54,300	44,800	215,000	102,000	172,000	39,400	36,000	34,300	26,300	9,990
20	18,600	9,990	60,400	43,000	213,000	88,200	162,000	35,100	32,600	32,600	24,100	9,990
21	18,000	9,990	66,600	39,400	211,000	80,000	142,000	32,600	29,400	29,400	22,000	9,990
22	16,700	9,990	73,200	36,000	218,000	77,700	125,000	31,000	27,900	26,300	21,300	9,990
23	15,500	9,990	73,200	34,300	216,000	76,600	111,000	30,200	27,100	23,400	21,300	9,990
24	13,100	10,500	75,400	32,600	190,000	77,700	102,000	27,900	27,900	22,700	20,000	9,990
25	13,100	16,700	75,400	31,000	143,000	91,800	96,700	27,100	27,100	22,700	18,000	9,990
26	12,000	26,300	64,500	29,400	99,200	124,000	87,000	25,600	29,400	20,600	16,700	9,990
27	12,000	29,400	56,300	31,000	80,000	151,000	78,800	24,800	27,900	18,600	16,100	9,990
28	11,000	33,400	48,500	39,400	100,000	168,000	73,200	24,800	27,100	18,000	14,300	9,990
29	10,500	41,200	44,800	43,000	.....	178,000	67,700	22,700	27,100	16,700	13,700	9,990
30	10,500	43,900	42,100	41,200	.....	175,000	64,500	23,400	27,100	16,100	13,100	9,500
31	9,990	.....	39,400	41,200	.....	152,000	.....	31,000	.....	15,500	13,100	.....
1904												
1	9,020	9,020	11,500	22,700	32,600	50,400	120,000	27,900	27,900	16,100	13,700	.....
2	9,020	9,020	11,500	23,400	27,900	56,300	105,000	30,200	34,300	16,700	14,300	.....
3	9,020	9,990	11,500	22,000	24,800	56,300	85,800	36,000	39,400	18,000	15,500	.....
4	9,020	11,000	11,000	20,000	23,400	53,300	73,200	44,800	36,000	20,000	14,900	.....
5	8,550	13,100	11,000	16,700	22,000	50,400	62,400	43,000	32,600	21,300	14,900	.....
6	8,550	12,600	10,500	15,500	20,600	48,500	55,300	39,400	29,400	24,100	15,500	.....
7	8,550	12,000	9,990	14,900	19,300	46,600	52,300	37,700	26,300	24,100	16,700	.....
8	9,990	11,500	9,990	14,300	18,600	56,300	50,400	35,100	23,400	26,300	16,700	.....
9	11,000	12,000	9,500	13,700	20,000	60,400	55,300	34,300	31,000	24,800	18,600	.....
10	10,500	12,000	9,500	13,700	23,400	67,700	56,300	35,100	27,100	20,600	22,000	.....
11	9,990	11,000	9,500	13,100	32,600	80,000	56,300	26,800	24,800	19,300	24,800	.....
12	9,500	10,500	9,500	12,600	37,700	84,600	52,300	39,400	22,700	18,000	27,900	.....
13	9,990	10,500	9,990	13,100	37,700	82,300	48,500	42,100	20,600	18,000	27,100	.....
14	10,500	10,500	9,990	13,100	36,000	80,000	44,800	44,800	20,600	18,600	24,800	.....
15	10,500	10,500	9,990	13,700	32,600	82,300	41,200	41,200	18,000	18,600	24,100	.....
16	11,000	10,500	9,990	13,700	31,000	81,200	39,400	38,500	17,300	19,300	24,800	.....
17	12,000	11,000	9,990	14,300	28,600	80,000	36,800	34,300	16,700	20,000	23,400	.....
18	11,000	18,000	9,990	14,900	27,100	71,000	34,300	31,000	16,100	20,000	21,300	.....
19	10,500	14,900	10,500	18,000	23,400	60,400	32,600	31,000	16,100	19,300	22,000	.....
20	9,990	14,900	14,300	19,300	22,700	56,300	31,000	29,400	15,500	16,700	23,400	.....
21	9,500	24,100	27,900	21,300	22,700	52,300	31,000	26,300	14,900	16,700	21,300	.....
22	9,500	35,100	20,000	27,900	22,000	78,800	31,000	24,800	14,900	16,100	20,000	.....
23	9,500	30,200	21,300	43,000	23,400	97,900	31,000	23,400	14,300	16,100	17,300	.....
24	9,020	27,100	27,900	48,500	31,000	128,000	29,400	22,000	13,700	15,500	16,700	.....
25	9,020	21,300	30,200	66,600	40,300	160,000	28,600	20,000	13,700	14,300	16,700	.....
26	9,020	17,300	27,900	80,000	50,400	175,000	27,900	19,300	15,500	14,300	15,500	.....
27	9,020	15,500	26,300	66,600	52,300	210,000	27,100	19,300	14,900	13,700	14,900	.....
28	9,020	13,700	23,400	56,300	52,300	206,000	27,100	18,000	14,900	14,300	15,500	.....
29	9,020	13,700	22,000	48,500	48,500	187,000	26,300	18,000	16,700	13,700	16,700	.....
30	9,020	12,000	21,300	43,000	.....	167,000	25,600	18,600	16,700	13,700	16,700	.....
31	9,020	.....	22,000	36,000	.....	143,000	.....	18,600	.....	13,700	15,500	.....

Daily discharge, in second-feet, of Tennessee River at Florence, Ala.—Continued.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1905												
1	.....	.....	11,000	71,000	25,600	94,200	36,800	56,300	43,000	62,400	24,800	27,900
2	.....	.....	11,500	58,300	24,800	78,800	36,000	64,500	42,100	76,600	23,400	27,900
3	.....	.....	11,500	46,600	24,800	67,700	35,100	64,500	41,200	78,200	22,000	37,700
4	.....	.....	11,500	39,400	25,600	62,400	35,100	60,400	36,800	58,300	22,000	36,000
5	.....	.....	12,000	34,300	28,600	56,300	35,100	52,300	32,600	46,600	22,000	31,000
6	.....	.....	15,500	29,400	35,100	50,400	34,300	46,600	29,400	37,700	22,000	26,300
7	.....	.....	22,000	27,900	49,400	47,600	32,600	45,700	27,900	34,300	22,000	23,400
8	.....	.....	24,800	31,000	62,400	46,600	31,000	46,600	24,800	32,600	20,000	22,000
9	.....	.....	29,400	28,600	117,000	58,300	31,000	44,800	24,100	32,600	19,300	20,600
10	.....	.....	32,600	29,400	160,000	99,200	32,600	44,800	23,400	31,000	19,300	20,000
11	.....	.....	34,300	32,600	175,000	115,000	34,300	50,400	22,000	36,000	20,600	20,600
12	.....	.....	32,600	50,400	201,000	128,000	41,200	56,300	21,300	41,200	22,000	20,600
13	.....	.....	28,600	77,700	201,000	142,000	41,200	55,300	21,300	43,900	27,900	19,300
14	.....	.....	24,800	83,500	193,000	139,000	43,000	50,400	19,300	43,000	37,700	18,000
15	.....	.....	20,000	112,000	161,000	125,000	44,800	46,600	18,600	48,500	46,600	16,700
16	.....	.....	18,000	125,000	136,000	107,000	47,600	41,200	19,300	71,000	55,300	16,700
17	.....	.....	16,700	123,000	117,000	84,600	50,400	44,800	22,000	81,200	60,400	16,100
18	.....	.....	16,100	109,000	102,000	68,800	48,500	52,300	22,000	72,100	56,300	15,500
19	.....	.....	15,500	84,600	91,800	60,400	44,800	78,200	22,000	60,400	50,400	15,500
20	.....	.....	14,900	64,500	94,200	54,300	40,300	89,400	21,300	51,400	46,600	15,500
21	.....	.....	14,300	54,300	145,000	56,300	37,700	89,400	20,600	41,200	41,200	15,500
22	.....	.....	13,700	46,600	175,000	63,500	34,300	77,700	26,300	34,300	38,500	14,300
23	.....	.....	13,100	43,000	182,000	66,600	32,600	71,000	37,700	31,000	34,300	13,700
24	.....	.....	13,100	38,500	185,000	66,600	32,600	94,200	43,000	31,000	32,600	13,100
25	.....	.....	14,300	34,300	182,000	63,500	31,800	104,000	46,600	31,000	29,400	12,600
26	.....	.....	16,700	31,800	168,000	57,300	31,800	99,200	43,000	31,800	27,900	12,600
27	.....	.....	20,000	29,400	146,000	52,300	32,600	91,800	41,200	31,000	34,300	12,000
28	.....	.....	41,200	27,900	115,000	48,500	36,800	77,700	46,600	30,200	39,400	12,000
29	.....	.....	54,300	26,300	.....	46,600	43,000	64,500	50,400	30,200	36,800	11,500
30	.....	.....	71,000	25,600	.....	43,000	51,400	54,300	58,300	29,400	32,600	11,000
31	.....	.....	85,800	26,300	.....	39,400	.....	46,600	.....	27,100	30,200	.....
1906												
1	11,500	22,000	12,600	54,300	78,800	39,400	124,000	36,000	26,300	34,300	48,500	44,300
2	11,000	20,000	12,600	49,400	75,400	38,500	128,000	35,100	29,400	31,000	48,500	63,500
3	11,500	19,300	13,100	48,500	71,000	46,600	125,000	34,300	31,000	27,900	53,300	75,400
4	11,500	18,000	16,100	56,300	64,500	66,600	107,000	33,400	30,200	27,100	59,300	74,300
5	12,600	16,700	18,000	71,000	60,400	71,000	89,400	33,400	29,400	26,300	60,400	64,500
6	12,600	15,500	33,400	88,200	58,300	80,000	75,400	34,300	31,000	24,800	57,300	56,300
7	12,600	14,300	60,400	96,700	54,300	80,000	66,600	34,300	31,000	22,700	50,400	51,400
8	12,000	14,300	64,500	104,000	50,400	71,000	59,300	35,100	31,000	22,000	50,400	52,300
9	11,500	14,300	60,400	96,700	46,600	64,500	58,300	37,700	26,300	22,000	46,600	56,300
10	13,100	13,700	57,300	89,400	43,000	58,300	56,300	41,200	25,600	22,700	44,800	64,500
11	16,700	13,100	60,400	77,700	39,400	52,300	57,300	48,500	24,800	22,700	41,200	66,600
12	22,000	13,100	68,800	73,200	37,700	46,600	58,300	54,300	23,400	26,300	39,400	64,500
13	20,600	13,100	68,800	74,300	36,000	44,800	62,400	52,300	22,000	33,400	36,000	66,600
14	18,600	13,100	66,600	68,800	34,300	45,700	66,600	44,800	22,000	35,100	36,000	62,400
15	19,300	12,600	64,500	63,500	32,600	77,700	64,500	38,500	22,000	34,300	37,700	53,300
16	22,700	12,600	75,400	58,300	31,000	107,000	61,400	36,000	24,100	50,400	34,300	45,700
17	23,400	12,000	68,800	58,300	31,000	95,400	60,400	31,800	32,600	60,400	36,800	41,200
18	22,000	12,000	68,800	61,400	30,200	89,400	60,400	29,400	43,000	77,700	39,400	36,800
19	20,000	11,500	62,400	66,600	30,200	94,200	64,500	26,300	54,300	87,000	44,800	34,300
20	20,000	11,000	56,300	71,000	29,400	112,000	68,800	24,800	52,300	96,700	46,600	37,700
21	19,300	11,000	54,300	69,900	29,400	115,000	66,000	23,400	46,600	111,000	48,000	38,500
22	18,000	11,000	64,500	80,000	30,200	107,000	60,400	23,400	40,300	104,000	48,500	48,500
23	15,500	11,500	77,700	134,000	32,600	96,700	52,300	22,000	36,000	89,400	48,500	67,700
24	14,300	11,500	94,200	154,000	36,000	83,500	47,600	20,600	31,800	82,300	46,600	80,000
25	14,300	11,500	94,200	146,000	39,400	73,200	43,000	20,600	28,600	93,000	43,000	75,400
26	15,500	11,500	94,200	136,000	43,900	64,500	41,200	22,000	28,600	97,900	41,200	66,000
27	21,300	12,000	95,400	148,000	43,900	60,400	39,400	24,100	34,300	83,500	39,400	57,300
28	20,600	12,000	89,400	155,000	43,000	64,500	37,700	27,900	39,400	68,800	41,200	58,300
29	22,000	12,600	73,200	142,000	.....	71,000	36,000	31,000	39,400	61,400	44,800	84,600
30	22,000	12,600	67,700	116,000	.....	97,900	36,000	28,600	37,700	58,300	43,000	91,800
31	22,700	.....	59,300	90,600	.....	119,000	.....	27,100	.....	52,300	39,400	.....

Daily discharge, in second-feet, of Tennessee River at Florence, Ala.—Continued.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1907												
1	87,000	31,000	52,300	129,000	53,300	87,000	36,000	77,700	40,300	36,800	20,000	19,300
2	102,000	31,000	46,600	151,000	102,000	145,000	35,100	64,500	46,600	37,700	20,600	18,600
3	165,000	28,600	43,000	161,000	129,000	162,000	35,100	58,300	43,900	39,400	24,100	18,000
4	187,000	27,900	41,200	160,000	131,000	165,000	40,300	56,300	43,000	37,700	29,400	16,700
5	189,000	27,100	39,400	142,000	125,000	167,000	43,900	52,300	43,900	34,300	26,300	16,700
6	187,000	26,300	37,700	113,000	105,000	164,000	44,800	52,300	43,000	31,000	22,700	16,700
7	181,000	24,800	36,800	93,000	89,400	149,000	44,800	66,600	48,500	29,400	20,600	16,100
8	158,000	23,400	36,000	77,700	81,200	124,000	47,600	84,600	58,300	26,300	19,300	14,900
9	148,000	23,400	35,100	71,000	78,800	99,200	64,500	97,900	56,300	25,600	18,000	15,500
10	134,000	22,700	36,800	64,500	75,400	84,600	75,400	104,000	54,300	23,400	20,600	16,700
11	112,000	22,700	37,700	58,300	68,800	83,500	72,100	120,000	61,400	21,300	21,300	16,100
12	91,800	22,000	37,700	54,300	62,400	84,600	68,800	138,000	68,800	21,300	20,600	22,000
13	76,600	21,300	37,700	50,400	56,300	85,800	68,800	128,000	82,300	22,000	19,300	22,700
14	64,500	21,300	37,700	48,500	50,400	90,600	62,400	102,000	84,600	29,400	20,600	24,100
15	55,300	22,000	38,500	46,600	48,500	120,000	59,300	113,000	75,400	31,000	23,400	27,100
16	49,400	22,700	38,500	43,900	44,800	117,000	54,300	97,900	71,000	36,000	24,800	26,300
17	46,600	24,800	46,600	41,200	41,200	116,000	49,400	99,200	69,900	43,000	23,400	24,100
18	44,800	27,900	63,500	39,400	39,400	109,000	46,600	87,000	75,400	44,800	21,300	22,000
19	43,900	44,800	62,400	38,500	38,500	100,000	43,900	75,400	93,000	39,400	20,600	19,300
20	47,600	53,300	57,300	39,400	36,000	89,400	43,900	62,400	87,000	36,000	21,300	16,700
21	52,300	104,000	67,700	43,900	34,300	80,000	43,900	52,300	63,500	31,800	21,300	16,100
22	52,300	152,000	71,000	44,800	32,600	72,100	44,800	47,600	47,600	29,400	21,300	20,000
23	48,500	178,000	71,000	45,700	32,600	62,400	52,300	43,000	39,400	28,600	20,600	21,300
24	50,400	190,000	66,600	48,500	34,300	58,300	53,300	39,400	36,800	27,100	20,000	28,600
25	56,300	201,000	60,400	55,300	37,700	52,300	54,300	39,400	38,500	25,600	22,000	31,000
26	54,300	195,000	56,300	53,300	41,200	47,600	58,300	36,800	37,700	23,400	22,700	46,600
27	50,400	165,000	52,300	47,600	43,900	44,800	58,300	36,000	39,400	22,000	22,000	67,700
28	48,900	113,000	48,500	43,000	52,300	41,200	58,300	31,000	39,400	20,000	22,000	64,500
29	39,400	76,600	44,800	39,400	.....	39,400	58,300	31,000	39,400	20,000	22,000	57,300
30	36,000	60,400	48,500	39,400	.....	38,500	66,600	31,000	38,500	19,300	21,300	46,600
31	34,300	.....	73,200	37,700	.....	36,800	.....	35,100	.....	20,000	20,600	.....
1908												
1	38,500	13,100	62,400	97,900	50,400	63,500	77,700	87,000	39,400	24,800	15,500	36,000
2	34,300	14,300	51,400	124,000	64,500	63,500	68,800	76,600	37,700	22,000	14,900	30,200
3	33,400	14,900	43,000	131,000	67,700	62,400	62,400	62,400	37,700	20,600	15,500	25,600
4	30,200	15,500	38,500	131,000	67,700	64,500	57,300	56,300	41,200	20,600	16,700	22,000
5	27,100	14,900	34,300	131,000	68,800	68,800	54,300	66,600	45,700	20,600	17,300	20,000
6	23,400	14,900	31,000	125,000	67,700	73,200	66,600	99,200	41,200	19,300	20,600	20,600
7	22,000	15,500	29,400	113,000	66,600	76,600	96,700	87,000	38,500	24,100	20,000	20,000
8	22,000	19,300	26,300	120,000	63,500	75,400	99,200	74,300	39,400	34,300	20,000	20,000
9	20,600	20,000	26,300	117,000	60,400	69,900	83,500	64,500	41,200	39,400	22,000	20,000
10	21,300	23,400	25,600	104,000	73,200	68,800	66,600	60,400	40,300	41,200	24,100	20,600
11	21,300	23,400	27,900	89,400	103,000	71,000	58,300	59,300	39,400	41,200	26,300	23,400
12	20,600	23,400	28,600	80,000	117,000	77,700	52,300	59,300	36,000	43,000	27,900	24,800
13	19,300	29,400	28,600	77,700	115,000	80,000	48,500	58,300	32,600	42,100	29,400	23,400
14	18,000	37,700	31,000	77,700	120,000	80,000	44,800	54,300	31,800	39,400	26,300	22,000
15	16,700	52,300	37,700	104,000	138,000	87,000	43,000	50,400	30,200	36,000	24,800	20,000
16	16,700	63,500	46,600	125,000	168,000	90,600	41,200	48,500	28,600	31,000	22,000	17,300
17	16,100	50,400	48,500	142,000	179,000	88,200	41,200	46,600	27,100	27,900	19,300	16,100
18	15,500	41,200	48,500	141,000	187,000	82,300	43,000	45,700	25,600	24,800	17,300	14,900
19	15,500	35,100	48,500	117,000	206,000	71,000	71,000	50,400	26,300	24,800	16,700	14,300
20	14,900	32,600	48,500	99,200	206,000	71,000	77,700	46,600	26,300	24,800	15,500	13,700
21	14,300	32,600	44,800	84,600	190,000	80,000	75,400	42,100	28,600	23,400	15,500	13,700
22	13,700	36,000	43,900	75,400	162,000	81,200	68,800	41,200	27,900	21,300	15,500	14,300
23	13,700	39,400	43,000	66,600	123,000	91,800	60,400	39,400	26,300	20,600	16,700	14,900
24	13,700	46,600	46,600	60,400	94,200	134,000	58,300	41,200	23,400	20,600	20,600	14,300
25	13,700	60,400	46,600	54,300	78,800	154,000	66,600	41,200	22,700	20,000	26,300	13,700
26	13,100	75,400	50,400	52,300	74,300	151,000	68,800	43,000	22,000	19,300	36,000	13,100
27	13,100	87,000	52,300	46,600	72,100	151,000	74,300	44,800	21,300	18,000	40,300	12,600
28	12,600	94,200	54,300	46,600	69,900	143,000	81,200	44,800	20,600	17,300	36,000	12,000
29	12,600	90,600	56,300	43,900	66,600	128,000	87,000	43,000	23,400	16,700	32,600	11,500
30	12,600	78,800	64,500	43,000	.....	99,200	91,800	41,200	25,600	16,700	36,000	11,500
31	12,600	.....	82,300	43,000	.....	89,400	.....	43,900	.....	16,700	39,400	.....

Daily discharge, in second-feet, of Tennessee River at Florence, Ala.—Continued.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1909												
1	11,000	18,600	14,300	56,300	38,500	185,000	124,000	103,000	82,300	75,400	30,200	19,300
2	10,500	16,700	13,700	56,300	36,800	164,000	125,000	139,000	69,900	66,600	30,200	18,600
3	10,500	23,400	13,700	56,300	36,000	136,000	115,000	157,000	67,700	61,400	32,600	18,600
4	10,500	31,800	14,300	56,300	34,300	109,000	96,700	168,000	94,200	60,400	47,600	19,300
5	10,500	31,000	14,900	55,300	33,400	89,400	80,000	172,000	145,000	58,300	52,300	20,000
6	10,500	26,300	19,300	56,300	33,400	80,000	68,300	172,000	172,000	57,300	56,300	19,300
7	10,500	22,700	34,300	62,400	39,400	80,000	69,900	157,000	184,000	54,300	60,400	18,600
8	11,000	19,300	60,400	66,600	43,000	80,000	80,000	124,000	184,000	50,400	58,300	18,000
9	11,000	16,700	74,300	68,300	50,400	89,400	81,200	94,200	181,000	52,300	50,400	16,700
10	11,000	16,700	89,400	71,000	78,300	111,000	75,400	78,200	162,000	68,300	43,000	16,700
11	11,000	15,500	100,000	66,600	112,000	139,000	73,200	68,300	142,000	108,000	37,700	19,300
12	11,000	14,300	93,000	57,300	125,000	162,000	68,300	66,600	124,000	128,000	32,600	18,600
13	11,000	14,300	80,000	52,300	136,000	192,000	68,300	66,600	112,000	120,000	31,000	18,600
14	12,000	13,700	64,500	49,400	154,000	236,000	76,600	67,700	100,000	99,200	30,200	18,600
15	13,100	13,700	55,300	56,300	172,000	250,000	73,200	69,900	91,300	80,000	29,400	18,600
16	15,500	14,300	54,300	66,600	181,000	247,000	67,700	66,600	82,300	80,000	27,900	18,600
17	18,000	15,500	50,400	89,400	170,000	240,000	61,400	60,400	82,300	89,400	29,400	18,600
18	15,500	16,700	47,600	109,000	162,000	226,000	58,300	54,300	84,600	88,200	31,000	17,300
19	14,300	16,700	43,900	117,000	168,000	200,000	58,300	48,500	80,000	80,000	31,000	16,700
20	12,000	16,700	89,400	125,000	170,000	162,000	54,300	44,800	73,200	66,600	56,300	16,100
21	12,000	16,700	86,000	128,000	160,000	127,000	49,400	46,600	69,900	56,300	73,200	16,100
22	12,000	16,700	86,000	111,000	148,000	104,900	45,700	58,300	87,000	47,600	58,300	16,100
23	11,500	16,100	51,400	96,700	172,000	93,000	46,600	69,900	94,200	43,000	44,800	18,000
24	11,500	15,500	61,400	77,700	236,000	90,600	57,300	99,200	91,800	39,400	36,000	18,000
25	11,000	15,500	73,200	64,500	235,000	87,000	66,600	136,000	84,600	34,300	31,000	20,000
26	11,000	15,500	87,000	56,300	240,000	89,400	75,400	143,000	75,400	33,400	26,300	20,600
27	10,500	15,500	89,400	49,400	228,000	84,600	80,000	125,000	73,200	35,100	23,400	24,100
28	10,500	14,900	82,300	46,600	208,000	95,400	75,400	99,200	82,300	34,300	22,000	26,300
29	16,700	14,900	71,000	43,000	———	111,000	74,300	75,400	83,500	32,600	20,600	27,900
30	26,300	14,900	62,400	39,400	———	117,000	73,200	63,500	80,000	31,000	20,000	24,300
31	23,400	———	54,300	39,400	———	117,000	———	74,300	———	31,300	19,300	———
1910												
1	22,000	14,300	13,700	22,000	39,400	67,700	22,700	37,700	65,600	58,300	34,300	18,600
2	19,300	14,300	13,100	20,600	37,700	73,200	22,000	40,300	55,300	58,300	36,000	19,300
3	18,000	13,700	12,600	18,600	35,100	87,000	20,600	39,400	50,400	62,400	39,400	22,700
4	16,100	13,700	12,600	18,000	34,300	102,000	20,600	37,700	44,800	68,800	41,200	31,000
5	15,500	13,100	12,600	18,000	32,600	112,000	20,600	34,300	42,100	71,000	39,400	48,500
6	14,900	13,100	12,600	27,100	31,000	104,000	20,000	31,000	43,000	77,700	38,500	54,300
7	14,300	13,100	14,300	56,300	30,200	91,300	20,000	28,600	46,600	81,200	36,000	46,600
8	13,700	13,100	15,500	62,400	29,400	77,700	19,300	27,900	50,400	88,200	38,500	41,200
9	13,700	13,100	20,600	75,400	31,000	66,600	18,600	27,100	59,300	94,200	39,400	41,200
10	13,700	13,100	22,700	94,200	31,000	57,300	18,000	31,000	71,000	96,700	41,200	37,700
11	13,700	13,100	27,900	94,200	31,000	53,300	18,000	41,200	80,000	99,200	39,400	36,000
12	13,100	12,600	29,400	77,700	31,000	50,400	18,000	51,400	72,100	95,400	39,400	31,000
13	13,700	12,600	27,900	65,600	29,400	45,700	18,000	55,300	64,500	84,600	36,000	29,400
14	18,000	12,600	27,100	55,300	28,600	43,900	18,000	55,300	71,000	78,300	34,300	27,900
15	20,600	12,600	27,900	48,500	28,600	42,100	18,000	52,300	73,200	73,200	31,000	27,100
16	26,300	12,600	31,800	40,300	31,000	41,200	18,600	46,600	66,600	65,600	24,300	26,300
17	29,400	12,600	36,000	36,300	46,600	39,400	37,700	43,000	60,400	63,500	22,700	24,300
18	36,000	12,600	36,300	36,000	83,500	37,700	47,600	37,700	58,300	77,700	22,000	23,400
19	36,000	12,600	36,300	36,300	96,700	36,300	48,500	37,700	57,300	88,200	20,600	20,600
20	31,000	12,600	35,100	42,100	102,000	33,400	56,300	41,200	56,300	75,400	19,300	19,300
21	26,300	12,600	31,300	44,300	117,000	32,600	59,300	57,300	52,300	64,500	18,600	18,000
22	23,400	12,600	28,600	52,300	127,000	31,000	54,300	77,700	52,300	52,300	18,600	16,700
23	20,600	12,600	24,300	62,400	121,000	29,400	48,500	89,400	48,500	43,000	20,600	16,100
24	19,300	14,300	22,000	68,300	112,000	29,400	43,000	93,000	46,600	39,400	22,000	15,500
25	18,000	14,300	22,000	71,000	96,700	27,900	39,400	102,000	43,000	39,400	23,400	15,500
26	16,700	13,700	23,400	68,300	84,600	27,900	36,000	111,000	41,200	37,700	22,000	14,900
27	16,100	13,100	26,300	68,300	73,200	26,300	33,400	115,000	38,500	39,400	20,600	14,900
28	15,500	12,600	27,100	60,400	66,600	25,600	32,600	112,000	37,700	41,200	20,000	14,900
29	15,500	13,100	25,600	54,300	———	24,800	32,600	100,000	39,400	43,000	20,000	14,900
30	14,900	13,700	24,300	47,600	———	24,100	34,300	88,200	50,400	36,000	19,300	14,900
31	14,300	———	23,400	43,000	———	23,400	———	76,600	———	34,300	18,600	———

Daily discharge, in second-feet, of Tennessee River at Florence, Ala.—Continued.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1911												
1	14,900	12,000	13,100	46,600	43,900	52,300	58,300	54,300	23,400	18,000	24,100	11,000
2	15,500	12,000	13,100	82,300	44,800	48,500	54,300	53,300	20,600	18,000	28,600	10,500
3	15,500	12,000	13,100	151,000	49,400	48,500	52,300	54,300	20,000	20,600	27,900	9,990
4	15,500	12,000	13,100	203,000	54,300	43,000	67,700	68,800	19,300	20,600	25,600	9,500
5	16,100	12,000	15,500	206,000	64,500	39,400	142,000	77,700	19,300	18,600	22,700	9,990
6	17,300	12,000	23,400	206,000	67,700	39,400	206,000	75,400	18,600	18,000	22,700	14,300
7	18,000	12,000	43,000	200,000	80,000	39,400	231,000	64,500	18,600	17,300	24,800	18,000
8	19,300	12,000	60,400	193,000	94,200	37,700	254,000	56,300	19,300	15,500	26,300	16,700
9	18,000	12,000	75,400	178,000	145,000	36,000	284,000	50,400	18,600	14,900	26,300	15,500
10	16,700	12,000	77,700	136,000	167,000	40,300	293,000	44,800	18,600	16,100	24,800	15,500
11	16,100	11,500	64,500	95,400	184,000	80,000	290,000	41,200	18,000	16,700	23,400	16,700
12	15,500	11,500	55,300	68,800	187,000	117,000	284,000	39,400	17,300	15,500	20,600	20,600
13	15,500	11,500	44,800	58,300	190,000	128,000	272,000	36,000	16,700	16,700	19,300	15,500
14	19,300	11,500	36,300	52,300	187,000	115,000	247,000	34,300	16,700	18,000	18,000	14,300
15	22,700	11,000	30,200	45,700	181,000	87,000	226,000	31,000	16,700	20,600	18,000	13,700
16	23,400	11,000	26,300	41,200	154,000	66,600	195,000	31,000	15,500	22,700	17,300	13,100
17	21,300	11,000	23,400	39,400	112,000	56,300	162,000	31,000	14,900	22,700	16,700	12,000
18	18,000	10,500	22,000	36,000	87,000	50,400	154,000	28,600	13,100	22,700	16,700	12,000
19	16,100	10,500	20,600	35,100	68,800	45,700	160,000	27,900	13,100	22,700	16,100	11,500
20	14,300	10,500	19,300	34,300	62,400	41,200	193,000	27,100	13,100	22,000	19,300	11,500
21	13,700	10,500	16,700	32,600	60,400	39,400	203,000	27,100	14,900	26,300	19,300	11,500
22	13,100	10,500	16,700	31,000	58,300	37,700	187,000	31,000	14,900	34,300	18,000	12,000
23	12,600	10,500	17,300	31,000	52,300	36,800	168,000	35,100	14,900	31,000	16,700	11,500
24	12,600	10,500	17,300	31,000	52,300	36,800	138,000	39,400	15,500	31,000	15,500	11,500
25	12,000	10,500	19,300	29,400	48,500	36,800	115,000	36,000	16,700	30,200	14,300	12,000
26	12,000	10,500	19,300	29,400	48,500	39,400	94,200	34,300	18,000	29,400	13,100	12,000
27	12,000	10,500	19,300	31,000	46,600	44,800	76,600	31,000	19,300	34,300	12,600	12,000
28	12,000	11,000	19,300	34,300	50,400	50,400	65,600	27,900	20,000	33,400	12,600	12,000
29	12,000	11,500	22,000	39,400	———	56,300	64,500	26,300	22,700	32,600	12,000	12,600
30	12,000	13,700	24,800	41,200	———	58,300	58,300	24,800	19,300	26,300	11,500	12,600
31	12,000	———	31,000	41,200	———	60,400	.....	23,400	.....	23,400	11,000	———
1912												
1	13,100	15,500	31,000	206,000	108,000	154,000	230,000	213,000	71,000	50,400	31,000	22,000
2	13,700	18,100	29,400	181,000	119,000	141,000	238,000	198,000	72,100	52,300	30,200	21,300
3	13,100	12,600	27,100	154,000	117,000	125,000	250,000	193,000	62,400	46,600	27,900	19,300
4	12,000	12,600	24,800	138,000	109,000	104,000	247,000	198,000	55,300	43,000	27,900	18,600
5	12,000	12,000	23,400	117,000	95,400	87,000	240,000	189,000	52,300	39,400	31,300	18,600
6	10,500	12,000	22,700	94,200	77,700	84,600	233,000	168,000	47,600	41,200	33,400	18,000
7	10,500	12,000	22,000	78,800	62,400	82,300	215,000	151,000	43,000	56,300	32,600	18,000
8	9,990	13,100	20,000	69,900	54,300	91,800	215,000	134,000	39,400	66,600	31,000	18,000
9	9,990	13,700	19,300	75,400	47,600	107,000	213,000	112,000	39,400	76,600	36,000	16,700
10	11,500	15,500	18,600	81,200	43,000	115,000	193,000	104,000	37,700	73,200	40,300	16,700
11	12,600	16,700	20,600	75,400	39,400	112,000	146,000	96,700	34,300	62,400	39,400	15,500
12	13,700	20,600	34,300	68,800	37,700	115,000	107,000	91,800	32,600	60,400	34,300	14,900
13	13,700	24,800	53,300	64,500	36,000	115,000	87,000	87,000	31,000	60,400	31,000	13,700
14	13,100	30,200	73,200	59,300	35,100	120,000	80,000	75,400	29,400	59,300	29,400	13,100
15	13,700	31,000	88,200	54,300	37,700	155,000	75,400	68,800	27,900	58,300	27,900	13,100
16	16,700	35,100	94,200	49,400	39,400	184,000	80,000	62,400	26,300	57,300	26,300	13,100
17	20,600	34,300	87,000	46,600	43,000	195,000	99,200	57,300	24,800	50,400	24,800	13,100
18	26,300	32,600	80,000	43,000	48,500	198,000	117,000	54,300	23,400	43,000	24,800	13,100
19	29,400	31,000	75,400	46,600	49,400	198,000	115,000	49,400	27,900	44,800	24,800	13,700
20	31,800	30,200	66,600	54,300	51,400	190,000	104,000	48,500	29,400	43,000	24,800	13,100
21	35,100	31,000	56,300	47,600	65,600	181,000	97,900	48,500	30,200	41,200	24,800	13,700
22	37,700	31,800	60,400	43,000	95,400	160,000	97,900	50,400	29,400	37,700	26,300	15,500
23	40,300	31,000	81,200	42,100	102,000	128,000	99,200	49,400	27,100	36,800	26,300	29,400
24	41,200	30,200	87,000	43,000	115,000	136,000	108,000	46,600	26,300	36,800	27,900	39,400
25	36,000	29,400	89,400	43,900	131,000	148,000	117,000	41,200	24,800	36,800	28,600	39,400
26	27,900	28,600	103,000	43,000	161,000	139,000	124,000	39,400	26,300	36,000	29,400	38,500
27	24,100	27,100	154,000	41,200	182,000	139,000	136,000	37,700	27,900	33,400	31,000	42,100
28	20,600	27,100	175,000	44,800	175,000	148,000	158,000	35,100	32,600	31,000	32,600	36,800
29	18,000	27,900	181,000	58,300	157,000	178,000	187,000	41,200	39,400	31,000	30,200	31,000
30	16,700	31,000	181,000	80,000	.....	216,000	213,000	71,000	44,800	31,000	26,300	31,000
31	16,100	.....	228,000	91,800	.....	223,000	.....	73,200	.....	32,600	22,700	———

Daily discharge, in second-feet, of Tennessee River at Florence, Ala.—Continued.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1913												
1	29,400	12,600	11,500	44,800	203,000	172,000	210,000	36,000	72,100	20,000	14,300	12,600
2	27,900	12,600	12,000	50,400	187,000	178,000	216,000	36,800	78,800	18,600	16,100	12,000
3	24,800	12,600	12,000	59,300	162,000	175,000	221,000	36,000	78,200	18,000	16,700	12,000
4	22,700	12,600	14,300	80,000	131,000	178,000	213,000	36,000	64,500	18,000	16,700	12,000
5	20,000	12,000	22,000	80,000	108,000	157,000	168,000	34,300	58,800	18,000	16,700	12,000
6	18,000	12,000	36,000	80,000	94,200	124,000	112,000	32,600	54,300	17,300	15,500	11,000
7	16,700	12,000	48,900	104,000	87,000	93,000	89,400	32,600	56,300	17,300	15,500	11,000
8	15,500	12,600	60,400	120,000	82,300	76,600	75,400	30,200	58,300	17,300	14,900	11,000
9	14,900	12,600	71,000	139,000	77,700	64,500	66,600	29,400	54,300	17,300	14,900	11,000
10	14,300	13,100	68,800	175,000	71,000	57,300	60,400	29,400	50,400	17,300	14,900	11,000
11	13,700	13,100	61,400	165,000	71,000	56,300	58,300	27,900	46,600	19,300	14,900	11,000
12	13,100	13,100	48,500	160,000	83,500	55,300	57,300	27,900	46,600	20,000	14,900	10,500
13	12,600	15,500	41,200	154,000	116,000	62,400	52,300	29,400	58,300	19,300	14,900	9,990
14	12,600	18,600	35,100	142,000	117,000	145,000	50,400	29,400	52,300	19,300	14,300	9,500
15	12,600	20,000	31,000	124,000	123,000	182,000	50,400	27,900	45,700	19,300	15,500	9,500
16	12,600	18,000	27,900	112,000	123,000	198,000	53,300	27,900	40,300	18,000	20,600	9,500
17	12,600	16,700	24,100	99,200	107,000	193,000	56,300	31,000	36,000	18,000	18,600	9,500
18	12,600	16,100	23,400	95,400	90,600	203,000	56,300	29,400	31,000	18,000	18,000	9,500
19	14,300	14,900	23,400	93,000	77,700	210,000	60,400	28,600	27,900	18,000	16,700	9,500
20	15,500	14,300	23,400	87,000	66,600	215,000	60,400	29,400	26,300	15,500	15,500	10,500
21	16,700	13,700	23,400	89,400	60,400	231,000	60,400	30,200	24,800	14,900	14,900	10,500
22	16,700	13,700	22,700	97,900	56,300	213,000	56,300	32,600	23,400	14,300	14,300	10,500
23	16,100	13,700	22,000	99,200	56,300	182,000	52,300	41,200	24,800	14,300	14,300	10,500
24	16,700	13,100	25,600	108,000	54,300	151,000	48,500	52,300	24,800	14,300	14,900	10,500
25	16,700	12,600	29,400	145,000	50,400	125,000	44,800	62,400	22,000	14,300	14,900	11,000
26	16,100	12,600	31,000	157,000	48,500	112,000	41,200	74,300	23,400	13,100	14,300	12,600
27	15,500	12,600	29,400	172,000	93,000	160,000	39,400	94,200	22,700	13,100	14,300	13,100
28	14,300	12,000	29,400	203,000	157,000	162,000	39,400	107,000	22,000	13,100	14,300	13,700
29	14,300	12,000	29,400	206,000	.....	187,000	37,700	107,000	20,600	13,100	13,700	15,500
30	13,700	12,000	31,000	203,000	.....	190,000	37,700	91,800	20,000	14,300	13,100	23,400
31	13,100	.....	39,400	205,000	.....	200,000	.....	77,700	.....	14,300	13,100	.....
1914												
1	25,400	11,800	12,300	27,700	30,100	51,600	101,000	48,000	14,500	11,800	12,300	13,900
2	18,800	13,400	12,300	29,300	53,400	49,800	114,000	49,800	13,900	11,300	12,800	29,300
3	14,500	13,900	12,800	29,300	63,300	47,100	124,000	40,300	13,400	10,800	13,400	34,400
4	13,400	13,900	14,500	27,700	54,300	44,600	127,000	38,600	13,400	9,850	13,400	32,600
5	12,300	13,900	15,700	26,100	48,000	41,200	125,000	41,200	12,800	9,850	13,900	24,600
6	12,300	13,900	16,300	25,400	48,000	37,800	117,000	46,200	12,800	9,850	15,100	20,200
7	11,800	12,800	15,700	24,600	61,500	36,000	90,200	39,400	12,800	9,850	14,500	18,200
8	11,300	11,300	15,700	23,100	68,300	34,400	78,800	36,900	12,800	9,850	13,900	16,300
9	10,800	10,800	15,700	20,900	76,600	32,600	81,000	37,800	12,800	9,850	13,400	13,900
10	10,800	9,850	17,500	20,900	75,500	31,000	82,100	41,200	12,800	9,850	13,900	13,400
11	10,300	9,850	19,500	20,200	68,300	31,000	74,400	41,200	12,800	10,300	13,900	12,800
12	9,850	10,800	21,600	19,500	61,500	32,600	75,500	40,300	12,800	10,300	13,400	12,800
13	9,400	10,800	22,400	19,500	60,600	39,400	78,800	37,800	13,900	10,300	13,400	11,300
14	9,400	10,800	22,400	18,800	57,000	43,700	78,800	35,200	13,900	9,850	15,700	10,300
15	9,400	10,800	20,200	18,200	55,200	48,900	93,800	32,600	13,900	9,850	16,900	9,850
16	9,400	10,800	19,500	18,800	53,400	55,200	109,000	30,100	13,900	16,300	17,500	9,850
17	8,950	11,800	19,500	20,200	53,400	67,300	114,000	29,800	13,900	18,800	16,300	9,850
18	8,150	11,800	18,800	21,600	53,400	66,300	114,000	27,700	13,900	12,300	15,700	10,300
19	8,150	11,800	15,100	20,900	51,600	58,800	108,000	26,100	13,900	26,900	16,300	10,800
20	8,150	11,800	15,100	19,500	48,000	51,600	95,000	23,800	12,300	47,100	18,800	10,300
21	8,150	11,300	13,900	17,500	44,600	44,600	91,400	23,100	12,800	45,400	18,800	10,300
22	8,550	11,300	13,400	16,300	42,800	42,800	90,200	22,400	12,800	37,800	16,300	10,300
23	8,950	11,800	13,400	15,100	41,200	42,800	99,800	20,900	13,900	27,700	15,100	10,300
24	9,400	12,800	13,400	15,100	46,200	44,600	106,000	19,500	19,500	23,100	14,500	9,850
25	8,950	12,800	15,100	15,100	53,400	44,600	107,000	18,880	21,600	18,800	13,900	9,400
26	9,850	13,400	15,100	15,100	60,600	42,800	89,000	18,800	18,800	15,700	13,900	9,400
27	9,850	13,400	14,500	15,700	60,600	42,800	81,000	17,500	17,500	15,100	13,900	10,800
28	10,800	12,800	15,000	16,300	55,200	42,000	62,400	16,300	15,100	13,900	13,900	10,800
29	10,800	12,300	21,000	16,900	.....	42,800	56,100	16,300	13,400	13,900	12,800	10,800
30	10,800	12,300	23,000	17,500	.....	50,700	52,500	15,100	12,300	13,900	12,800	9,850
31	10,800	.....	25,000	20,200	.....	83,200	.....	15,100	.....	12,800	12,800	.....

Daily discharge, in second-feet, of Tennessee River at Florence, Ala.—Cont'd.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June	July	Aug.	Sept.
1915												
1....	9,400	12,800	14,500	204,000	152,000	55,200	44,600	23,100	27,700	18,200	18,200	23,100
2....	9,400	12,800	15,100	184,000	185,000	57,000	44,600	23,100	28,500	20,900	18,200	27,700
3....	9,400	11,800	14,500	146,000	144,000	53,400	44,600	23,100	28,500	20,900	17,500	27,700
4....	9,400	10,800	16,300	120,000	196,000	51,600	43,700	22,400	30,100	26,900	16,300	26,100
5....	8,950	10,800	35,200	93,800	191,000	52,500	42,800	22,400	32,600	37,800	16,300	23,100
6....	8,950	10,300	65,300	78,800	185,000	58,800	41,200	20,900	46,200	46,200	15,700	26,100
7....	8,950	10,300	93,800	71,300	184,000	60,600	39,400	26,100	47,100	54,300	15,700	32,600
8....	8,950	10,300	111,000	75,500	175,000	72,300	36,000	29,300	41,200	67,300	15,700	38,600
9....	8,950	10,300	113,000	81,000	157,000	72,300	34,400	34,400	36,900	73,300	16,300	41,200
10....	8,950	10,300	105,000	85,400	135,000	66,300	32,600	36,000	32,600	69,300	16,900	36,900
11....	8,950	10,300	78,800	90,200	105,000	62,400	31,800	42,000	32,600	57,000	18,200	41,200
12....	9,400	10,300	65,300	102,000	87,800	58,800	34,400	52,500	32,600	49,800	20,900	36,900
13....	10,800	9,850	53,400	117,000	75,500	52,500	39,400	49,800	32,600	42,800	16,300	32,600
14....	11,800	9,850	42,800	117,000	68,300	50,700	44,600	44,600	31,000	39,400	16,300	26,900
15....	12,300	9,850	35,200	109,000	64,300	46,200	48,000	36,000	29,300	36,000	15,700	23,100
16....	12,800	9,850	32,600	106,000	62,400	43,700	48,900	34,400	26,100	37,800	15,700	20,200
17....	11,800	9,850	31,300	106,000	58,800	44,600	48,000	32,600	24,600	45,400	15,700	18,800
18....	11,800	9,850	31,000	114,000	57,000	44,600	43,700	31,000	29,300	46,200	15,700	17,500
19....	15,100	9,850	31,000	125,000	55,200	43,700	39,400	30,100	36,000	43,700	18,800	16,900
20....	49,800	10,300	26,100	125,000	55,200	42,800	37,800	27,700	39,400	41,200	24,600	16,300
21....	56,100	9,850	28,500	125,000	55,200	42,800	36,000	24,600	36,000	36,900	26,900	16,300
22....	48,000	12,800	29,300	125,000	52,500	43,700	34,400	23,100	32,600	33,500	26,100	15,700
23....	39,400	15,100	37,800	124,000	48,900	43,700	31,000	21,600	29,300	30,100	27,700	15,700
24....	32,600	15,100	49,800	126,000	48,000	44,600	29,300	21,600	26,100	32,600	31,000	15,100
25....	24,600	13,900	92,600	122,000	47,100	43,700	27,700	20,200	23,100	36,000	31,000	15,100
26....	20,200	13,900	138,000	97,400	47,100	42,800	26,100	19,500	23,100	36,900	29,300	14,500
27....	17,500	12,800	175,000	99,800	48,000	42,800	24,600	19,500	23,800	34,400	27,700	15,100
28....	16,300	12,800	194,000	109,000	51,600	41,200	23,100	20,200	23,100	30,100	27,700	15,700
29....	15,100	12,300	202,000	114,000	.....	39,400	23,100	22,400	20,200	30,100	24,600	15,100
30....	13,900	12,800	226,000	109,000	.....	38,600	23,100	26,100	17,500	23,100	23,800	16,300
31....	13,400	.....	231,000	101,000	.....	41,200	.....	27,700	.....	20,900	26,100	.....

Monthly discharge of Tennessee River at Florence, Ala.

[Drainage area, 30,800 square miles.]

Month	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Per square mile.	Depth in inches.
1895					
October	13,100	9,990	11,100	0.360	0.42
November	12,600	10,500	11,400	.370	.41
December	68,800	11,000	26,700	.867	1.00
January	213,000	23,400	103,000	3.34	3.85
February	75,400	33,400	49,800	1.62	1.69
March	173,000	47,600	111,000	3.60	4.15
April	94,200	48,500	66,600	2.16	2.41
May	64,500	37,700	51,100	1.66	1.91
June	47,600	17,300	25,800	.838	.94
July	59,300	17,300	30,500	.990	1.14
August	47,600	18,000	25,700	.834	.96
September	22,700	11,500	17,400	.565	.63
The year	213,000	9,990	44,300	1.44	19.51

Monthly discharge of Tennessee River at Florence, Ala.—Continued.

Month	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Per square mile.	Depth in inches.
1896					
October	11,500	10,500	11,000	.357	.41
November	14,300	11,000	12,400	.403	.45
December	71,000	12,000	20,700	.672	.77
January	55,300	19,300	32,200	1.05	1.21
February	155,000	34,300	100,000	3.25	3.50
March	141,000	30,200	61,000	1.98	2.28
April	254,000	29,400	98,500	3.20	3.57
May	41,200	16,700	24,600	.799	.92
June	38,500	17,300	23,800	.773	.86
July	125,000	16,700	56,500	1.83	2.11
August	46,600	14,300	21,400	.695	.80
September	20,600	11,000	13,300	.432	.48
The year	254,000	10,500	39,300	1.28	17.36
1897					
October	16,100	11,000	12,700	0.412	0.48
November	52,300	11,500	23,400	.760	.85
December	90,600	18,600	39,000	1.27	1.46
January	62,400	16,700	34,900	1.13	1.30
February	193,000	29,400	88,900	2.89	3.01
March	481,000	91,300	255,000	8.28	9.55
April	225,000	40,300	115,000	3.73	4.16
May	152,000	27,100	63,800	2.07	2.39
June	32,600	19,300	25,900	.841	.94
July	72,100	20,600	33,000	1.07	1.23
August	35,100	16,100	21,900	.711	.82
September	14,900	9,500	11,100	.360	.40
The year	481,000	9,500	60,300	1.96	26.59
1898					
October	12,600	8,550	10,300	.334	.39
November	12,000	9,990	10,300	.351	.39
December	38,200	9,990	33,400	1.08	1.24
January	157,000	19,300	87,200	2.83	3.26
February	102,000	22,000	35,400	1.15	1.20
March	57,300	21,300	33,500	1.09	1.26
April	124,000	56,300	83,200	2.70	3.01
May	51,400	20,000	29,600	.961	1.11
June	26,800	13,100	19,400	.630	.70
July	36,800	14,300	19,900	.646	.74
August	102,000	21,300	52,900	1.72	1.98
September	139,000	20,600	45,500	1.48	1.65
The year	157,000	8,550	38,400	1.25	16.93
1899					
October	99,200	19,300	43,100	1.40	1.61
November	47,600	22,700	30,600	.994	1.11
December	46,600	23,400	33,900	1.10	1.27
January	161,000	30,200	74,900	2.43	2.80
February	264,000	46,600	150,000	4.87	5.07
March	352,000	127,000	231,000	7.50	8.65
April	167,000	56,300	107,000	3.47	3.87
May	73,200	26,300	49,100	1.59	1.83
June	37,700	18,000	26,000	.844	.94
July	24,100	13,700	17,900	.581	.67
August	27,900	11,500	16,500	.536	.62
September	16,700	11,000	12,800	.416	.46
The year	352,000	11,000	65,600	2.13	28.90

Monthly discharge of Tennessee River at Florence, Ala.—Continued.

Month	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Per square mile.	Depth in inches.
1900					
October	13,100	10,500	11,400	.370	.43
November	15,500	10,500	11,700	.380	.42
December	65,600	12,600	39,000	1.27	1.46
January	94,200	16,700	48,600	1.58	1.82
February	168,000	24,100	76,300	2.48	2.58
March	131,000	62,400	97,700	3.17	3.66
April	243,000	56,300	110,000	3.57	3.98
May	62,400	21,300	31,700	1.03	1.19
June	142,000	24,800	63,600	2.06	2.30
July	94,200	20,000	38,800	1.26	1.45
August	52,300	13,700	20,700	.672	.77
September	25,600	11,500	16,100	.523	.58
The year	243,000	10,500	46,800	1.52	20.64
1901					
October	43,000	12,600	20,300	.659	.76
November	109,000	14,300	27,500	.893	1.00
December	107,000	23,400	42,400	1.38	1.59
January	193,000	31,000	80,800	2.62	3.02
February	113,000	27,900	61,100	1.98	2.06
March	152,000	26,300	65,400	2.12	2.44
April	195,000	62,400	133,000	4.48	5.00
May	192,000	31,300	81,500	2.65	3.06
June	103,000	40,300	57,300	1.88	2.10
July	46,600	16,100	28,100	.912	1.05
August	233,000	16,100	93,600	3.20	3.69
September	80,000	31,000	53,500	1.74	1.94
The year	233,000	12,600	62,300	2.04	27.71
1902					
October	38,400	17,300	24,300	0.789	9.91
November	16,700	14,900	15,800	.513	.57
December	193,000	15,500	77,600	2.52	2.90
January	272,000	38,500	114,000	3.70	4.27
February	198,000	43,900	97,200	3.16	3.29
March	273,000	67,700	161,000	5.23	6.03
April	216,000	37,700	91,600	2.97	3.31
May	66,600	22,700	34,000	1.10	1.27
June	26,300	17,300	20,300	.675	.75
July	59,300	14,300	24,600	.799	.92
August	17,300	11,500	13,600	.442	.51
September	22,000	11,000	12,900	.419	.47
The year	273,000	11,000	57,200	1.86	25.20
1903					
October	21,300	9,990	16,400	.532	.61
November	43,900	9,020	14,600	.474	.53
December	75,400	31,000	54,300	1.78	2.05
January	58,300	29,400	46,500	1.51	1.74
February	218,000	88,500	157,000	5.10	5.31
March	236,000	76,600	163,000	5.29	6.10
April	226,000	64,500	137,000	4.45	4.96
May	64,500	22,700	40,600	1.32	1.52
June	107,000	27,100	53,300	1.75	1.95
July	35,100	15,500	25,300	.831	.96
August	27,900	13,100	19,900	.646	.74
September	12,000	9,500	10,400	.338	.38
The year	236,000	9,020	61,100	1.98	26.85

Monthly discharge of Tennessee River at Florence, Ala.—Continued.

Month	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Per square mile.	Depth in inches.
1904					
October	12,000	8,550	9,640	.313	.36
November	35,100	9,020	14,800	.481	.54
December	30,200	9,500	15,500	.503	.58
January	80,000	12,600	27,800	.903	1.04
February	52,300	18,600	30,500	.990	1.07
March	210,000	46,600	93,800	3.05	3.52
April	120,000	25,600	47,300	1.54	1.72
May	44,800	18,000	31,000	1.01	1.16
June	39,400	13,700	21,900	.711	.79
July	26,300	13,700	18,100	.588	.68
August	27,900	13,700	19,100	.620	.71
September	.....	.....	11,500	.373	.42
The year	210,000	.....	28,400	.922	12.59
1905					
October	.....	.....	7,700	.250	.29
November	.....	.....	8,500	.276	.31
December	85,800	11,000	24,500	.795	.92
January	125,000	25,600	53,000	1.72	1.98
February	201,000	24,800	119,000	3.86	4.02
March	142,000	39,400	73,800	2.40	2.77
April	51,400	31,000	38,000	1.23	1.37
May	104,000	41,200	63,100	2.05	2.36
June	58,300	18,600	31,600	1.03	1.15
July	81,200	27,100	44,600	1.45	1.67
August	60,400	19,300	32,800	1.06	1.22
September	37,700	11,000	19,200	.623	.70
The year	201,000	.....	42,500	1.38	18.76
1906					
October	28,400	11,000	17,100	.555	.64
November	22,000	11,000	13,600	.442	.49
December	95,400	12,600	60,400	1.96	2.26
January	155,000	48,500	90,300	2.93	3.38
February	78,800	29,400	44,000	1.43	1.49
March	119,000	38,500	75,300	2.44	2.81
April	128,000	36,000	65,800	2.14	2.39
May	54,300	20,600	32,700	1.06	1.22
June	54,300	22,000	32,500	1.06	1.18
July	111,000	22,000	54,400	1.77	2.04
August	60,400	34,300	45,000	1.46	1.68
September	91,800	34,300	59,400	1.93	2.15
The year	155,000	11,000	49,300	1.60	21.73
1907					
October	189,000	34,300	86,700	2.81	3.24
November	201,000	21,300	66,100	2.15	2.40
December	73,200	35,100	49,100	1.59	1.83
January	161,000	37,700	68,400	2.22	2.56
February	131,000	32,600	63,000	2.05	2.14
March	167,000	36,800	94,100	3.06	3.53
April	75,400	35,100	52,800	1.71	1.91
May	138,000	31,000	69,700	2.26	2.61
June	93,000	36,800	55,600	1.81	2.02
July	44,800	19,300	29,500	.958	1.10
August	29,400	18,000	21,700	.705	.81
September	67,700	14,900	26,300	.854	.95
The year	201,000	14,900	57,000	1.85	25.10

Monthly discharge of Tennessee River at Florence, Ala.—Continued.

Month	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Per square mile.	Depth in inches.
1908					
October	38,500	12,600	19,100	.620	.71
November	94,200	13,100	39,900	1.30	1.45
December	82,300	25,600	43,500	1.41	1.63
January	142,000	43,000	92,400	3.00	3.46
February	206,000	50,400	108,000	3.51	3.79
March	154,000	62,400	89,900	2.92	3.37
April	99,200	41,200	66,200	2.15	2.40
May	99,200	39,400	55,500	1.80	2.08
June	45,700	20,600	31,600	1.03	1.15
July	43,000	16,700	26,200	.851	.98
August	40,300	14,900	23,500	.763	.88
September	36,000	11,500	18,600	.604	.67
The year	206,000	11,500	51,000	1.66	22.57
1909					
October	26,300	10,500	12,800	.416	.48
November	31,800	13,700	17,700	.575	.64
December	100,000	13,700	54,200	1.76	2.03
January	128,000	39,400	69,200	2.25	2.59
February	240,000	33,400	129,000	4.19	4.36
March	250,000	80,000	139,000	4.51	5.20
April	125,000	45,700	74,000	2.40	2.68
May	172,000	44,800	95,600	3.10	3.57
June	184,000	67,700	105,000	3.41	3.80
July	128,000	31,000	63,200	2.05	2.36
August	73,200	19,300	37,800	1.23	1.42
September	27,900	16,100	19,300	.627	.70
The year	250,000	10,500	67,600	2.19	29.83
1910					
October	36,000	13,100	19,300	.627	.72
November	14,300	12,600	13,100	.425	.47
December	36,800	12,600	24,100	.782	.90
January	94,200	18,000	51,200	1.66	.191
February	127,000	28,600	58,500	1.90	1.98
March	112,000	23,400	50,500	1.64	1.89
April	59,300	18,000	30,500	.990	1.10
May	115,000	27,100	58,700	1.91	2.20
June	80,000	37,700	54,600	1.77	1.98
July	99,200	34,300	65,400	2.12	2.44
August	41,200	18,600	28,900	.938	1.08
September	54,300	14,900	26,100	.847	.94
The year	127,000	12,600	40,000	1.30	17.61
1911					
October	23,400	12,000	15,600	.506	.58
November	13,700	10,500	11,300	.367	.41
December	77,700	13,100	29,500	.958	1.10
January	206,000	29,400	80,000	2.60	3.00
February	190,000	43,900	94,300	3.06	3.19
March	128,000	36,000	55,100	1.79	2.06
April	293,000	52,300	167,000	5.42	6.05
May	77,700	23,400	40,800	1.32	1.52
June	23,400	13,100	17,600	.571	.64
July	34,300	14,900	22,900	.744	.86
August	28,600	11,000	19,200	.623	.72
September	20,600	9,500	13,100	.425	.47
The year	293,000	9,500	46,700	1.52	20.60

Monthly discharge of Tennessee River at Florence, Ala.—Continued.

Month	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Per square mile.	Depth in inches.
1912					
October	41,200	9,990	20,100	0.653	0.75
November	35,100	12,000	23,800	.773	.86
December	228,000	18,600	74,400	2.42	2.79
January	206,000	41,200	75,400	2.45	2.82
February	182,000	35,100	84,000	2.73	2.94
March	223,000	82,300	144,000	4.68	5.40
April	250,000	75,400	154,000	5.00	5.58
May	213,000	35,100	93,100	3.02	3.48
June	72,100	23,400	37,200	1.21	1.35
July	76,600	31,000	47,400	1.54	1.78
August	40,300	22,700	29,500	.958	1.10
September	42,100	18,100	21,300	.692	.77
The year	250,000	9,990	67,000	2.18	29.62
1913					
October	29,400	12,600	16,300	.529	.61
November	20,000	12,000	13,800	.448	.50
December	71,000	11,500	32,400	1.05	1.21
January	206,000	44,800	124,000	4.03	4.65
February	203,000	48,500	98,400	3.19	3.32
March	231,000	55,300	152,000	4.94	5.70
April	221,000	37,700	81,500	2.65	2.96
May	107,000	27,900	44,900	1.46	1.68
June	78,800	20,000	41,800	1.36	1.52
July	20,000	13,100	16,700	.542	.62
August	20,600	13,100	15,400	.500	.58
September	23,400	9,500	11,500	.373	.42
The year	231,000	9,500	53,900	1.75	23.77
1914					
October	25,400	8,150	11,000	0.357	0.41
November	13,900	9,850	12,000	.390	.44
December	25,000	12,300	16,900	.549	.63
January	29,300	15,100	20,400	.662	.76
February	76,600	30,100	55,200	1.79	1.86
March	88,200	31,000	46,000	1.49	1.72
April	127,000	52,500	93,900	3.05	3.40
May	49,800	15,100	30,600	.994	1.15
June	21,600	12,300	14,200	.461	.51
July	47,100	9,850	16,500	.536	.62
August	18,800	12,300	14,600	.474	.55
September	34,400	9,400	14,200	.461	.51
The year	127,000	8,150	28,500	.925	12.56
1915					
October	56,100	8,950	17,500	0.568	0.65
November	15,100	9,850	11,400	.370	.41
December	231,000	14,500	77,900	2.53	2.92
January	204,000	71,300	113,000	3.67	4.23
February	196,000	47,100	101,000	3.28	3.42
March	72,300	38,600	50,100	1.63	1.88
April	48,900	23,100	36,600	1.19	1.33
May	52,500	19,500	28,600	.929	1.07
June	47,100	17,500	30,700	.997	1.11
July	73,300	18,200	39,300	1.28	1.48
August	31,000	15,700	20,900	.679	.78
September	41,200	14,500	23,600	.766	.85
The year	231,000	8,950	45,700	1.48	20.13

ELK RIVER NEAR ELKMONT, ALA.

Location.—At wagon bridge near Wilson's store, about five miles east of Elkmont, Ala., and 3 miles below the bridge of the Louisville and Nashville Railroad.

Records available.—June 24, 1904, to January 31, 1908.

Drainage area.—1,700 square miles.

Gage.—Chain gage attached to bridge.

Channel.—Permanent rocky bed and swift current.

Discharge measurements.—Made from the bridge.

Artificial control.—On such as would result from small water powers a long distance above.

Accuracy.—Records are considered good.

Discharge measurements of Elk River near Elkmont, Ala.

Date.	Gage height. Feet.	Discharge. Sec.-feet.	Date.	Gage height. Feet.	Discharge. Sec.-feet.
1904			September 30	1.51	815
April 24	2.62	1,352	November 28	1.81	461
May 17	2.15	794			
June 24	2.02	690	1906		
August 17	2.10	795	March 22	3.58	2,800
October 20	1.28	202	May 10	2.41	1,050
October 20	1.27	194	June 28	1.75	468
1905			October 26	2.53	1,190
April 12	2.71	1,380	October 26	2.54	1,210
June 19	2.51	1,160	December 11	2.50	1,200

Mean daily gage height, in feet, of Elk River near Elkmont, Ala.

Day.	July	Aug.	Sept.	Oct.	Nov.	Dec.
1904						
1	2.30	1.60	1.40	1.30	1.30	1.70
2	2.00	2.10	1.30	1.40	1.20	1.70
3	1.90	1.90	1.40	1.40	1.30	1.70
4	1.80	1.60	2.00	1.40	1.30	2.00
5	1.80	2.00	1.40	1.30	1.50	2.40
6	2.10	1.70	1.60	2.20	1.60	2.80
7	2.30	1.60	1.50	2.00	1.50	3.10
8	2.30	1.60	1.30	1.70	1.50	2.90
9	2.40	1.60	1.40	1.50	1.40	2.60
10	2.10	1.70	1.40	1.40	1.40	2.40
11	1.90	6.00	1.40	1.40	1.40	2.40
12	2.10	4.10	1.30	1.40	1.30	2.30
13	2.00	2.70	1.40	1.30	1.40	2.10
14	1.90	2.30	1.30	1.30	1.40	2.10
15	1.80	2.70	1.30	1.30	1.30	2.00
16	1.70	2.20	1.30	1.30	1.30	1.90
17	1.70	2.10	1.30	1.30	1.30	1.90
18	2.00	2.10	1.30	1.20	1.30	1.90
19	1.70	1.90	1.20	1.30	1.30	1.90
20	2.10	2.30	1.40	1.30	1.30	1.90
21	2.40	1.90	1.50	1.30	1.40	1.80
22	2.70	1.70	1.40	1.30	1.40	1.80
23	2.70	2.50	1.40	1.30	1.40	1.70
24	2.20	2.80	1.40	1.20	1.40	1.90
25	1.80	2.00	1.40	1.30	1.50	4.80
26	1.80	1.80	1.50	1.30	1.40	3.40
27	1.70	1.70	1.50	1.20	1.40	6.80
28	1.70	1.60	1.50	1.20	1.40	11.70
29	1.70	1.50	1.40	1.30	1.40	6.80
30	1.80	1.50	1.40	1.20	1.60	5.45
31	1.70	1.50	.....	1.20	.....	4.40

Daily gage height, in feet, of Elk River near Elkmont, Ala.—Continued.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1905												
1	3.5	2.9	4.0	3.1	4.0	3.2	13.2	2.1	1.8	1.7	2.6	2.1
2	3.2	3.1	3.8	3.0	3.7	3.1	11.6	2.05	3.5	1.8	2.5	1.9
3	3.0	2.8	3.6	3.0	3.3	2.85	6.9	2.0	5.2	2.5	2.4	3.2
4	2.9	2.9	3.4	3.1	3.0	2.7	4.7	2.0	3.0	2.25	2.35	3.4
5	2.75	3.15	3.1	3.3	2.9	2.6	4.4	2.0	2.5	1.9	2.25	2.8
6	2.6	3.3	3.2	3.4	2.8	2.5	4.0	2.0	2.0	1.8	2.2	2.7
7	2.75	5.9	3.1	3.1	3.4	2.4	3.6	2.3	2.0	1.7	2.15	2.6
8	2.65	3.0	3.0	3.0	3.9	3.1	4.1	2.2	2.0	1.6	2.1	3.2
9	2.65	3.2	3.9	2.9	3.3	3.2	3.7	2.0	1.9	1.5	2.1	3.7
10	2.55	14.8	13.1	2.85	3.2	3.0	3.5	2.3	2.0	1.7	2.0	3.5
11	3.2	10.2	10.6	2.8	3.1	2.9	3.7	4.5	2.7	6.5	2.0	3.4
12	11.1	7.7	7.4	2.7	2.9	2.7	4.3	3.0	2.2	5.2	1.9	3.2
13	11.5	7.1	5.4	2.7	2.8	2.6	3.8	2.7	1.8	3.0	1.9	3.2
14	6.1	6.6	4.6	2.65	2.7	2.45	3.7	2.4	1.7	2.4	1.85	3.1
15	5.5	5.9	4.2	2.6	2.5	2.3	3.1	3.2	1.7	2.6	1.8	3.4
16	4.6	4.7	3.8	2.55	3.0	2.7	3.0	2.5	1.7	2.6	1.9	3.7
17	3.7	4.5	3.6	2.4	3.3	3.6	2.8	2.35	1.65	2.4	1.8	6.2
18	3.5	4.3	3.5	2.35	3.4	3.0	2.7	2.3	1.6	2.2	1.75	5.2
19	3.4	4.0	3.6	2.3	3.5	2.6	2.5	3.0	1.55	2.2	1.8	4.5
20	3.6	11.6	5.9	2.25	3.4	2.6	2.4	2.3	2.4	3.3	1.8	4.2
21	3.4	15.6	6.2	2.2	3.1	2.7	2.3	2.1	2.7	4.3	1.95	6.6
22	3.2	13.1	6.3	2.7	3.0	3.2	2.2	2.0	2.0	3.2	1.85	8.2
23	3.1	11.1	5.9	2.8	10.5	8.5	2.4	1.9	1.9	2.7	1.8	12.4
24	2.8	8.0	5.2	2.7	7.2	5.8	2.3	1.9	1.7	2.5	1.8	8.4
25	2.6	6.0	4.6	2.6	12.6	5.2	2.2	2.2	1.6	2.7	1.75	7.2
26	2.5	5.4	4.0	2.55	7.0	4.5	2.2	2.4	1.6	5.3	1.75	6.0
27	2.5	4.7	3.8	3.0	5.5	3.9	2.2	2.2	1.6	5.0	1.8	5.4
28	2.4	4.2	3.6	3.3	4.2	4.9	2.0	2.1	1.6	3.4	1.8	5.4
29	2.6	.....	3.5	3.2	3.9	10.4	2.0	2.0	1.55	3.1	1.8	4.9
30	3.2	.....	3.3	4.3	3.5	9.5	2.0	1.8	1.7	2.9	2.0	4.2
31	3.0	.....	3.2	.....	3.3	.....	2.1	1.7	.....	2.7	.....	4.0
1906												
1	3.8	3.85	2.7	8.6	2.75	2.5	1.75	2.9	2.0	13.3	2.2	2.3
2	3.9	3.5	3.0	6.8	2.6	2.8	1.7	2.7	2.0	9.8	2.2	2.4
3	6.3	3.3	8.7	5.3	2.6	2.7	1.65	2.55	2.0	13.3	2.15	2.5
4	5.6	3.3	10.7	4.8	2.7	2.6	1.85	2.5	2.15	11.3	2.15	2.55
5	4.9	3.25	5.9	4.6	2.6	3.0	1.7	2.45	2.2	8.3	2.15	2.55
6	4.4	3.15	4.8	4.4	2.65	2.5	1.9	2.6	2.2	12.3	2.1	2.5
7	4.4	3.1	4.1	4.2	2.85	2.4	1.7	2.1	2.1	10.0	2.1	2.7
8	4.4	3.0	3.9	3.8	2.75	2.2	1.8	2.0	2.0	8.2	2.15	2.7
9	4.3	2.9	3.7	3.4	2.5	2.15	1.75	2.0	2.1	5.9	2.15	2.5
10	4.0	2.9	3.55	4.2	2.4	2.4	1.8	1.9	2.3	5.1	2.15	2.5
11	4.0	2.85	3.35	4.0	2.3	2.2	1.7	2.0	4.3	4.4	2.1	2.5
12	7.0	2.8	3.15	3.8	2.3	2.05	1.6	2.2	3.0	4.0	2.1	4.4
13	6.0	2.8	3.05	3.4	2.15	2.5	2.2	2.9	2.4	4.0	2.1	4.4
14	5.5	2.75	4.4	3.2	2.2	2.35	3.5	3.4	2.4	3.9	2.05	4.4
15	5.0	2.75	7.1	3.3	2.3	2.5	3.2	3.4	2.3	3.8	2.07	4.5
16	5.0	2.7	5.6	3.2	2.2	2.1	2.35	3.65	2.2	3.15	2.1	6.3
17	5.5	2.6	4.6	3.05	2.2	2.05	2.7	3.1	2.1	3.1	2.15	9.6
18	4.6	2.55	4.4	3.0	2.1	2.0	3.0	2.9	2.0	3.0	2.2	8.0
19	5.0	2.5	4.1	2.95	2.0	1.9	3.3	2.6	7.9	3.15	3.8	6.7
20	4.6	2.5	4.0	2.8	2.0	1.8	2.7	2.45	4.2	3.1	6.8	5.6
21	4.4	2.5	3.9	2.7	1.9	1.8	3.35	2.2	3.0	3.0	6.3	5.0
22	9.1	2.55	3.7	2.6	2.4	1.8	3.0	2.0	3.85	2.9	5.8	4.9
23	12.5	2.6	3.4	2.8	1.9	1.8	2.8	2.2	5.8	2.8	4.2	4.4
24	14.0	2.6	3.3	2.6	1.9	1.75	3.5	2.3	4.0	2.7	3.8	3.75
25	11.4	2.65	3.2	2.55	1.85	2.1	3.3	2.4	3.4	2.6	3.5	3.5
26	7.5	2.75	3.1	2.5	4.0	1.9	2.85	2.5	4.5	2.5	3.5	3.35
27	5.9	2.8	3.75	3.8	3.2	1.9	2.55	2.4	3.4	2.5	3.1	3.2
28	5.1	2.8	4.8	3.15	3.05	1.8	2.35	2.3	7.6	2.2	3.0	4.4
29	4.7	.....	5.3	3.25	3.15	1.8	4.0	2.2	16.4	2.2	2.8	5.7
30	4.6	.....	11.5	2.9	3.1	1.75	3.7	2.1	18.5	2.3	2.5	6.0
31	4.5	.....	5.6	.....	2.7	.....	3.25	2.0	.....	2.3	.....	11.2

Daily gage height, in feet, of Elk River near Elkmont, Ala.—Continued.

Day.	Jan.	Feb.	Mar.	Apr.	May.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1907												
1	12.5	13.0	11.8	2.9	5.1	4.5	2.3	2.2	2.0	1.9	1.65	3.2
2	7.5	12.9	18.7	2.8	3.85	3.6	2.3	2.0	1.9	1.8	2.75	3.1
3	7.0	12.6	12.5	2.8	3.6	3.4	3.7	2.0	1.7	1.9	.....	3.0
4	7.2	9.8	8.5	2.7	3.7	3.25	2.85	1.95	2.0	1.9	2.5	2.8
5	6.7	8.5	8.0	2.6	3.6	3.2	2.4	1.85	2.2	2.0	2.4	2.3
6	6.0	5.8	6.7	3.2	4.0	2.95	2.35	1.85	2.1	1.8	2.3	2.3
7	5.4	5.0	5.6	3.0	6.7	2.85	2.3	1.85	2.1	1.9	2.0	2.4
8	4.6	4.0	5.6	2.85	9.0	2.7	2.2	1.9	2.0	1.9	1.9	2.5
9	4.4	4.0	5.0	3.1	9.3	2.6	2.1	2.65	2.1	1.85	1.8	2.8
10	4.2	3.9	.....	3.0	7.2	2.7	2.0	2.7	2.1	1.8	3.7	3.0
11	4.0	3.8	7.1	2.85	13.0	3.6	2.2	2.5	2.0	1.8	3.65	3.35
12	3.9	3.7	6.2	2.85	10.2	3.15	3.35	2.3	1.95	1.7	3.35	3.0
13	3.7	3.55	5.6	2.8	8.5	2.75	5.35	2.2	1.9	1.6	3.3	2.95
14	3.5	3.4	5.7	2.75	7.3	2.75	3.15	2.0	1.8	1.6	1.95	3.0
15	3.45	3.3	6.5	2.6	7.9	3.2	2.95	1.9	1.7	1.6	1.9	3.1
16	3.25	3.25	9.8	2.5	6.4	3.4	2.7	2.35	1.7	1.6	2.0	3.5
17	3.15	3.2	7.9	2.6	6.0	2.9	2.5	2.15	1.85	1.6	2.0	3.3
18	3.15	3.1	6.3	2.6	5.4	2.7	2.3	2.0	1.8	1.6	2.6	3.2
19	3.15	3.0	5.3	2.8	4.4	2.5	2.2	1.95	1.8	1.5	2.6	3.1
20	4.6	2.95	4.5	3.1	4.0	2.4	2.3	1.85	1.8	1.6	3.5	3.0
21	4.5	2.95	4.2	3.15	3.6	2.35	2.1	1.8	1.7	1.6	3.3	3.0
22	4.0	2.9	3.9	3.2	3.2	2.3	2.0	1.9	4.7	1.65	3.4	2.9
23	3.8	2.85	3.75	3.5	3.2	2.3	2.1	2.1	4.5	1.7	3.6	4.8
24	3.6	3.1	3.5	3.2	3.15	2.5	2.1	2.05	3.4	1.65	3.5	3.8
25	3.4	3.6	3.4	2.9	3.1	2.3	2.0	1.9	3.0	1.6	3.5	3.3
26	3.3	3.35	3.3	2.9	3.05	3.0	2.05	1.8	2.6	1.6	3.5	3.0
27	3.2	3.4	3.2	2.85	3.0	3.4	2.1	1.7	2.7	1.6	3.6	3.0
28	3.1	3.7	3.1	.....	2.8	3.0	2.0	2.0	2.6	1.6	3.4	2.9
29	3.1	.....	3.0	2.8	2.75	2.7	2.15	2.1	2.0	1.6	2.7	3.0
30	3.4	.....	3.0	4.8	2.7	2.3	2.45	1.9	2.0	1.65	2.7	12.5
31	4.0	.....	3.1	.....	2.85	.....	2.4	2.0	.....	1.6	.....	10.5

Day.	Jan.	Feb.	Day.	Jan.	Feb.	Day.	Jan.	Feb.
1908			1908			1908		
1	7.5	9.5	11	5.2	.....	21	4.3	.....
2	6.1	5.9	12	5.6	.....	22	4.0	.....
3	5.0	.....	13	5.4	.....	23	3.9	.....
4	6.5	.....	14	5.2	.....	24	3.6	.....
5	10.4	.....	15	4.6	.....	25	3.5	.....
6	8.4	.....	16	5.6	.....	26	3.3	.....
7	7.4	.....	17	5.4	.....	27	3.2	.....
8	5.8	.....	18	5.2	.....	28	3.1	.....
9	4.8	.....	19	5.0	.....	29	3.0	.....
10	4.2	.....	20	4.4	.....	30	2.95	.....
						31	3.0	.....

Rating table for Elk River near Elkmont, Ala., for 1905 to 1908.

Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.	Gage height. Feet.	Discharge. Sec.-feet.
1.50	315	3.10	1,970	4.70	5,190	7.40	12,880
1.60	375	3.20	2,130	4.80	5,430	7.60	13,520
1.70	440	3.30	2,300	4.90	5,680	7.80	14,160
1.80	510	3.40	2,480	5.00	5,930	8.00	14,800
1.90	585	3.50	2,660	5.20	6,450	9.00	18,000
2.00	660	3.60	2,840	5.40	6,980	10.00	21,200
2.10	740	3.70	3,030	5.60	7,520	11.00	24,400
2.20	830	3.80	3,220	5.80	8,080	12.00	27,600
2.30	930	3.90	3,420	6.00	8,640	13.00	30,800
2.40	1,040	4.00	3,620	6.20	9,210	14.00	34,000
2.50	1,150	4.10	3,830	6.40	9,790	15.00	37,200
2.60	1,270	4.20	4,040	6.60	10,380	16.00	40,400
2.70	1,400	4.30	4,260	6.80	10,980	17.00	43,600
2.80	1,530	4.40	4,490	7.00	11,600	18.00	46,800
2.90	1,670	4.50	4,720	7.20	12,240	19.00	50,000
3.00	1,820	4.60	4,950				

Note.—The above table is not applicable for obstructed-channel conditions. It is based on discharge measurements made during 1904 to 1906 and is well defined between gage heights 1.2 feet and 4.0 feet.

Monthly discharge of Elk River near Elkmont, Ala.

[Drainage area, 1,700 square miles.]

Month.	Discharge in second-feet.			Run-off.	
	Maximum.	Minimum.	Mean.	Sec.-feet per square mile.	Depth in inches.
1904					
July	1,475	468	724		
August	11,000	338	1,144		
September	690	165	287		
October	870	165	268		
November	401	165	271		
December 1-24	2,115	468	860		
1905					
January	26,000	1,040	3,850	2.26	2.61
February	39,100	1,530	12,400	7.29	7.59
March	31,100	1,820	6,320	3.72	4.29
April	4,260	330	1,650	.971	1.08
May	29,500	1,150	4,620	2.72	3.14
June	22,500	930	4,500	2.65	2.96
July	31,400	660	4,070	2.39	2.76
August	4,720	440	1,320	.776	.89
September	6,450	345	914	.538	.60
October	10,100	315	2,040	1.20	1.38
November	1,270	475	663	.390	.44
December	28,900	585	6,550	3.85	4.44
The year	39,100	315	4,070	2.40	32.19
1906					
January	34,000	3,220	8,740	5.14	5.93
February	3,320	1,150	1,660	.976	1.02
March	26,000	1,400	5,860	3.45	3.98
April	16,700	1,150	3,430	2.02	2.25
May	3,620	548	1,220	.718	.83
June	1,820	475	848	.499	.56
July	3,620	375	1,370	.806	.93
August	2,940	585	1,200	.706	.81
September	48,400	660	5,580	3.28	3.66
October	31,800	330	7,960	4.68	5.40
November	11,000	700	2,160	1.27	1.42
December	25,000	930	5,350	3.15	3.63
The year	48,400	375	3,782	2.22	30.42
1907					
January	29,200	1,970	5,350	3.15	3.63
February	30,800	1,600	6,920	4.07	4.24
March	49,000	1,820	9,910	5.83	6.72
April	5,430	1,150	1,790	1.05	1.17
May	30,800	1,400	7,490	4.41	5.08
June	4,720	930	1,760	1.04	1.16
July	6,840	660	1,270	.747	.86
August	1,400	440	716	.421	.49
September	5,190	440	1,070	.629	.70
October	660	315	447	.263	.30
November	3,030	408	1,670	.982	1.10
December	29,200	930	3,520	2.07	2.39
The year	49,000	315	3,490	2.06	27.84
1908					
January	22,500	1,740	6,440	3.79	4.37

BIG BEAR CREEK, NEAR RED BAY, ALA.

Location.—At Norman Bridge, 2½ miles east of Red Bay.

Records available.—August 24, 1913, to December 31, 1914.

Gage.—Vertical rod on left bank, 25 feet above the bridge.

Channel.—Somewhat shifting with sluggish current at low stage of water. Above 12 feet gage height, water will flow in several additional channels through road embankment on right side of creek.

Discharge measurements.—Made from the single span bridge.

Artificial control.—None that is known.

Accuracy.—Rating has not yet been developed. Flood measurements will be difficult and probably inaccurate.

Discharge measurements of Big Bear Creek near Red Bay, Ala.

	Gage height. Feet.	Discharge. Sec.-feet.
1913		
August 24	0.70	89
1915		
January 2	3.98	748
January 2	3.92	766

Daily gage height, in feet, of Big Bear Creek near Red Bay, Ala.

Day.	Aug.	Sept.	Oct.	Nov.	Dec.
1913					
1	.....	0.6	2.6	0.8	1.0
2	.....	.6	1.4	.8	1.0
3	.....	.6	1.1	.8	.9
4	.....	.6	1.0	.8	.9
5	.....	.6	.9	.7	.9
6	.....	.6	.8	.7	.9
7	.....	.6	.75	.7	1.0
8	.....	.6	.7	.8	1.0
9	.....	.6	.7	.8	1.0
10	.....	.6	.7	.8	1.0
11	.....	.6	.8	.8	.9
12	.....	.6	.8	.8	.9
13	.....	.6	.8	.8	.9
14	.....	.6	.7	.8	.9
15	.....	.6	.7	.8	1.0
16	.....	.6	.7	.8	1.1
17	.....	.6	.7	.8	1.1
18	.....	.95	.7	.8	1.1
19	.....	1.15	.7	.9	1.0
20	.....	1.2	.8	.9	1.0
21	.....	1.15	.8	.8	1.0
22	.....	.95	.8	.8	.9
23	.....	.85	.7	.8	.9
24	0.7	.8	1.0	.8	1.0
25	.75	.8	1.1	.8	1.2
26	.7	.7	1.0	.8	1.7
27	.7	.7	.9	.8	1.8
28	.7	.7	.9	.8	1.6
29	.65	1.35	.9	.8	1.5
30	.65	2.8	.8	.9	1.5
31	.6	.....	.8	.....	1.5

Daily gage height, in feet, of Big Bear Creek near Red Bay, Ala.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1914												
1	1.4	1.4	2.4	13.0	2.0	0.9	0.6	0.9	1.2	0.8	0.8	2.5
2	1.4	1.7	2.8	12.0	1.8	.9	.6	.8	1.0	.8	.7	1.7
3	1.3	1.5	2.1	9.3	1.8	.9	.6	1.0	1.0	.9	.7	1.4
4	1.3	1.3	2.0	6.4	1.7	.8	.6	.9	1.9	.9	.7	1.6
5	1.3	1.5	2.0	4.8	1.7	.8	.6	2.0	1.5	.8	.7	2.0
6	1.2	3.3	2.1	3.9	1.9	2.5	.6	1.5	1.2	.8	.6	1.8
7	1.2	3.7	2.1	3.1	2.0	2.6	.6	1.2	1.0	.8	.6	1.5
8	1.2	6.4	2.0	3.8	3.0	4.0	.5	1.1	.8	.7	.7	1.4
9	1.1	3.9	2.0	3.6	3.3	1.9	.5	1.0	.7	.7	.8	1.4
10	1.1	3.0	1.9	3.0	2.7	1.5	1.0	.8	.7	1.0	1.0	1.3
11	1.1	4.3	1.9	2.7	2.0	1.3	1.1	.8	.6	.8	1.0	1.2
12	1.1	4.6	2.4	3.1	1.8	1.7	1.4	.8	.6	.9	1.0	1.2
13	1.0	3.6	5.2	5.1	1.6	1.8	1.0	1.1	.6	1.2	.9	1.3
14	1.0	3.7	3.8	3.9	1.5	1.2	.8	2.4	.7	2.1	.9	1.7
15	1.0	3.9	3.2	5.0	1.4	1.2	.7	2.2	.6	2.9	.9	1.8
16	1.0	3.2	2.8	4.0	1.4	2.0	.7	1.3	.6	2.5	.8	1.7
17	1.0	3.0	2.5	3.4	1.3	2.5	6.1	1.0	.6	1.6	.8	1.6
18	1.0	2.7	2.2	3.0	1.4	1.8	2.8	.9	.5	1.4	.8	1.5
19	1.0	2.5	2.1	2.5	1.4	1.3	1.8	.8	.6	1.1	.8	1.5
20	.9	2.7	2.0	2.4	1.3	1.2	1.1	.8	.8	1.0	.8	1.6
21	.9	3.0	2.0	2.2	1.2	1.1	.9	.7	1.0	1.0	.7	1.7
22	.9	2.5	1.8	2.0	1.1	1.0	.9	.8	.9	.9	.7	1.7
23	.9	2.2	1.7	2.0	1.1	1.0	.8	.9	.8	.9	.7	1.8
24	.9	2.6	1.6	1.9	1.1	.9	.8	.9	.7	.9	.8	2.0
25	1.0	2.8	1.5	1.8	1.1	.8	.8	.8	2.7	.8	.8	7.6
26	1.2	2.6	1.5	1.8	1.0	.8	.7	.7	1.5	.8	.8	12.6
27	1.2	2.4	1.7	1.7	1.0	.7	.7	.9	1.2	.8	.8	10.0
28	1.1	2.5	1.8	1.6	1.0	.7	.7	1.1	1.0	.7	.9	5.3
29	1.0	.....	1.8	1.8	1.0	.7	.7	1.3	.9	.7	1.2	6.5
30	1.0	.....	5.3	2.1	1.0	.7	.7	2.5	.8	.7	2.1	12.0
31	1.1	.....	12.9	.....	.9	.....	1.2	1.4	.....	.7	.....	8.6

Daily gage height, in feet, of Big Bear Creek near Red Bay, Ala. —Continued.

Day	Jan.	Feb.	Mar.	Apr.	May.	June	July	Aug.	Sept.
1915									
1	5.7	12.6	2.4	2.4	1.2	1.1	1.7	0.6	1.6
2	4.1	13.5	2.4	2.2	1.3	1.5	1.4	.6	1.4
3	3.5	11.3	2.3	2.0	1.3	1.3	1.4	.6	1.2
4	3.0	7.1	2.2	2.0	1.2	1.2	1.9	.6	1.1
5	2.7	6.0	3.3	1.9	1.1	1.1	2.1	.6	1.1
6	2.7	6.8	6.4	1.9	1.1	1.1	2.8	.6	1.0
7	2.6	5.6	5.0	1.8	1.6	1.0	2.0	.6	1.0
8	2.4	4.8	4.1	1.8	3.3	1.0	1.6	.6	.9
9	2.3	4.2	3.5	1.7	2.4	.9	3.0	.8	1.0
10	2.1	3.7	3.1	1.7	1.9	.9	4.0	1.0	2.4
11	2.2	3.3	2.9	1.8	1.6	.8	2.1	1.8	2.0
12	5.1	3.0	2.7	3.3	2.4	.8	1.7	3.0	1.3
13	6.4	2.8	2.5	2.7	4.0	.8	1.4	2.5	1.1
14	4.5	3.3	2.4	2.2	3.1	1.0	1.2	2.0	1.0
15	3.8	4.0	2.3	2.0	2.7	.9	1.1	1.4	1.0
16	3.3	4.0	2.4	2.0	2.2	.9	1.0	1.1	.9
17	3.6	3.5	2.5	1.9	1.9	.8	1.0	1.0	.9
18	7.2	3.0	2.4	1.8	1.8	.8	1.0	.9	.8
19	11.0	2.8	2.2	1.7	1.7	.7	.9	1.0	.8
20	7.8	2.7	2.3	1.6	1.5	.7	1.0	4.2	.8
21	5.3	2.6	2.2	1.5	1.4	.7	1.0	2.3	1.0
22	5.0	2.6	2.1	1.5	1.3	.7	.9	1.6	.9
23	5.7	2.7	2.0	1.7	1.3	.8	1.0	1.2	.8
24	10.8	2.8	2.0	1.6	1.2	.8	1.0	1.7	.8
25	8.3	2.5	1.9	1.5	1.1	.8	.8	1.1	.7
26	5.8	2.4	1.8	1.4	1.1	.8	.8	2.0	.7
27	4.7	2.3	1.8	1.3	1.0	.7	.8	3.5	.7
28	4.0	2.3	1.9	1.3	1.0	.8	.7	6.8	.7
29	3.5	.....	1.9	1.3	1.0	.8	.7	2.8	.7
30	3.3	.....	2.0	1.2	1.2	3.2	.7	2.0	1.0
31	3.5	.....	2.1	.....	1.2	.....	.6	1.8	.....

MISCELLANEOUS MEASUREMENTS.

The following miscellaneous discharge measurements have been made:

Miscellaneous measurements in Choctawhatchee and Escambia River drainage basin.

Date.	Stream.	Tributary to—	Locality.	Discharge. Sec.-feet.
1905				
Oct. 17	Whitewater River	Pea River	Elba, Ala., wagon bridge	232
1906				
Feb. 21	Whitewater River	Pea River	Elba, Ala., wagon bridge	585
June 8	Whitewater River	Pea River	Elba, Ala., wagon bridge	115
Sept. 19	Whitewater River	Pea River	Elba, Ala., wagon bridge	60
1906				
June 6	Conecuh River	Escambia River	Brantley, Ala.	181

Miscellaneous measurements in Coosa River drainage basin.

Date.	Stream.	Tributary to—	Locality.	Discharge. Sec.-feet.
1901				
Oct. 16	Wills Creek	Coosa River	Attalla, 2 miles north of, at Wesson's Mill	107
1903				
July 2	Little River	Coosa River	Cedar Bluff	123
July 2	Chattooga River	Coosa River	Gaylesville	325

Miscellaneous measurements in Tallapoosa River drainage basin.

Date.	Stream.	Tributary to—	Locality.	Discharge. Sec.-feet.
1904				
Mar. 26	Tallapoosa River	Alabama River	Tallapoosa, Ga., 4 miles north of, at Buchanan Bridge	180
May 14	Tallapoosa River	Alabama River	Tallapoosa, Ga., 4 miles north of, at Buchanan Bridge	89
July 19	Tallapoosa River	Alabama River	Tallapoosa, Ga., 4 miles north of, at Buchanan Bridge	22
Aug. 31	Tallapoosa River	Alabama River	Tallapoosa, Ga., 4 miles north of, at Buchanan Bridge	59
Sept. 26	Tallapoosa River	Alabama River	Tallapoosa, Ga., 4 miles north of, at Buchanan Bridge	33
1906				
June 29	Tallapoosa River	Alabama River	Tallapoosa, Ga., 4 miles north of, at Buchanan Bridge	97
1904				
Mar. 26	Tallapoosa River	Alabama River	Tallapoosa, Ga., 2 miles north of, at Adderhold's Bridge	218
May 14	Tallapoosa River	Alabama River	Tallapoosa, Ga., 2 miles north of, at Adderhold's Bridge	59
July 19	Tallapoosa River	Alabama River	Tallapoosa, Ga., 2 miles north of, at Adderhold's Bridge	32
Aug. 31	Tallapoosa River	Alabama River	Tallapoosa, Ga., 2 miles north of, at Adderhold's Bridge	80
Sept. 26	Tallapoosa River	Alabama River	Tallapoosa, Ga., 2 miles north of, at Adderhold's Bridge	50
1906				
June 29	Tallapoosa River	Alabama River	Tallapoosa, Ga., 2 miles north of, at Adderhold's Bridge	146
1904				
Sept. 24	Tallapoosa River	Alabama River	Heflin, 7 miles southwest of, at Denman's Bridge	137
Nov. 3	Tallapoosa River	Alabama River	Heflin, 7 miles southwest of, at Denman's Bridge	62
Nov. 4	Tallapoosa River	Alabama River	Heflin, 7 miles southwest of, at Denman's Bridge	92
Dec. 14	Tallapoosa River	Alabama River	Heflin, 7 miles southwest of, at Denman's Bridge	181
Dec. 15	Tallapoosa River	Alabama River	Heflin, 7 miles southwest of, at Denman's Bridge	162
1906				
June 28	Tallapoosa River	Alabama River	Heflin, 7 miles southwest of, at Denman's Bridge	452

Miscellaneous measurements in Tallapoosa River drainage basin.

Date.	Stream.	Tributary to—	Locality.	Discharge. Sec.-feet.
1904				
Sept. 28	Little Tallapoosa Riv.	Tallapoosa Riv..	Wedowee, 8 miles north of, wagon bridge	236
Nov. 8	Little Tallapoosa Riv.	Tallapoosa Riv..	Wedowee, 8 miles north of, wagon bridge	102
1904				
Nov. 4	Little Tallapoosa Riv.	Tallapoosa Riv..	Wedowee, 6 miles northwest of, wagon bridge	124
Dec. 14	Little Tallapoosa Riv.	Tallapoosa Riv..	Wedowee, 6 miles northwest of, wagon bridge	211
Dec. 15	Little Tallapoosa Riv.	Tallapoosa Riv..	Wedowee, 6 miles northwest of, wagon bridge	214

Miscellaneous measurements in Cahaba River drainage basin.

Date.	Stream.	Tributary to—	Locality.	Discharge. Sec.-feet.
1903				
Sept. 30	East Cahaba River	Cahaba River	Bridgeton, below Dishazo's Mill	30
Nov. 12	East Cahaba River	Cahaba River	Bridgeton	28
Nov. 12	East Cahaba River	Cahaba River	Near Pledger's Mill, Shelby County	13
Nov. 12	East Cahaba River	Cahaba River	Near Leeds	7
1904				
Aug. 6	East Cahaba River	Cahaba River	Bridgeton, below mill	79

Miscellaneous measurements in Tennessee River drainage basin.

Date.	Stream.	Tributary to—	Locality.	Discharge. Sec.-feet.
1904				
Feb. 4	Paint Rock River	Tennessee River	Paint Rock, 3 miles south of, near Sou. Ry.	159
Apr. 20	Paint Rock River	Tennessee River	Paint Rock, 3 miles south of, near Sou. Ry.	275
1906				
May 12	Paint Rock River	Tennessee River	Paint Rock, 3 miles south of, near Sou. Ry.	118
June 26	Paint Rock River	Tennessee River	Paint Rock, 3 miles south of, near Sou. Ry.	87
Oct. 29	Paint Rock River	Tennessee River	Paint Rock, 3 miles south of, near Sou. Ry.	155
1904				
Feb. 5	Flint River	Tennessee River	Brownsboro, one-fourth mi. west of	209
Apr. 29	Flint River	Tennessee River	Brownsboro, one-fourth mi. west of	294
1906				
May 12	Flint River	Tennessee River	Brownsboro, one-fourth mi. west of	224
June 22	Flint River	Tennessee River	Brownsboro, one-fourth mi. west of	158
Oct. 29	Flint River	Tennessee River	Brownsboro, one-fourth mi. west of	237
1904				
Apr. 22	Big Spring	Tennessee River	Tuscumbia	100
Aug. 15	Big Spring	Tennessee River	Tuscumbia	43
Oct. 19	Big Spring	Tennessee River	Tuscumbia	20
Oct. 19	Big Spring	Tennessee River	Tuscumbia	19

RIVER PROFILES.

In order to present together with the foregoing stream flow data, fall data from which the available horsepower in the various streams may be determined, profile surveys have been made on Tallapoosa River and some of its tributaries, and these, together with the data of similar surveys made by the United States Army Engineers for navigation purposes have been tabulated so as to show a continuous chain of elevation and distances of points along the principal rivers of the State.

The following surveys are available.

Coosa River, Wetumpka up to Greensport, 142 miles.

Tallapoosa River (lower section) from Tallassee up to Griffin's Ferry near Matilda, 56 miles.

Big Sandy Creek from its mouth to a point near Dadeville, 12 miles.

Tallapoosa River (upper section) from Southern Railway bridge near the Georgia-Alabama state line down to Matilda, 118 miles.

Cahaba River from its mouth to the Shelby County line, 110 miles.

Black Warrior River from Tuscaloosa up to the mouth of Mulberry Fork, 92 miles.

Survey of Coosa River.

Coosa River has its beginning at the junction of Etowah and Oostanaula rivers, at Rome, Ga., a short distance east of the Alabama line.

From Rome down to Greensport, Ala., a distance of about 180 miles by river, navigation has been carried on for many years. The total fall in this section is only about 55 feet, and is so well distributed that it has not been necessary to construct locks at any point, though improvements have been made by the United States Government in the way of deepening channels, blasting out reefs, building wing dams, etc.

Below Greensport, Ala., the river has a large amount of fall, and although it is proposed to make the whole distance navigable by the construction of locks, there are many fine water powers which can be developed in connection with the river improvements without interfering with navigation.

A complete survey has been made of this portion of the river by the United States engineers, and a system of locks planned.

The level notes herein presented are reproduced from that survey, and show the river profile and the location of the shoals.

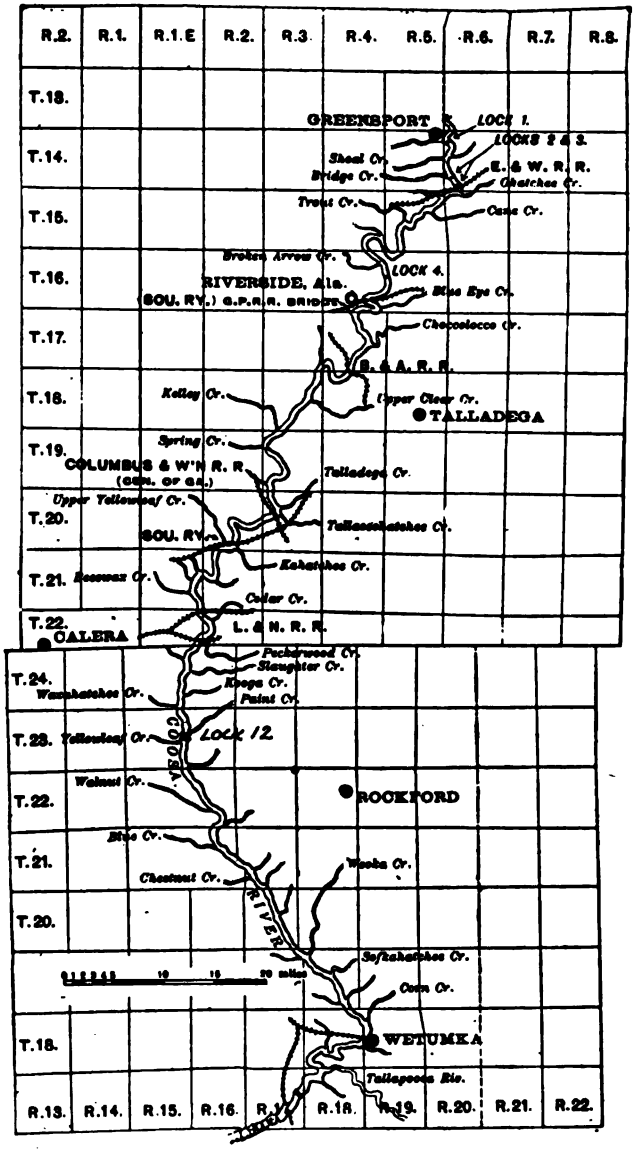

FIG 1.—MAP SHOWING COOSA RIVER FROM GREENSPORT TO WETUMPKA.

Elevations of water surface on Coosa River between Wetumpka and Greensport.

[Determined in 1889 by Charles Firth, assistant engineer under Capt. Philip H. Price, Corps of Engineers, U. S. Army.]

Distance from Wetumpka.	Location.	River Elevation above sea level.
Miles		
0.0	Wetumpka Bridge	154.37
0.4	Mouth of Valley Brook	164.37
2.0	Mouth of Corn Creek	168.37
4.0	Mouth of creek, top of Moccasin Reef	177.00
4.7	Foot of Grays Island Shoals	178.37
6.0	Big Eddy, top of Grays Island Shoals	186.37
8.3	Mouth of Sofkahatchee Creek	190.80
8.8	Top of Gunns Island Shoals	196.80
11.7	Mouth of Weoka, or Wenone, Creek, at Staircase Falls	212.80
12.9	Mouth of Shoal, or Mill, Creek	225.00
15.3	Greys Ferry	234.00
15.8	Mouth of Town Creek	234.80
16.8	Welona Reef, mouth of Welona Creek	241.00
20.3	Mouth of Pinchoulee Creek	254.00
21.4	Foot of Hells Gap Shoal	256.00
22.0	Mouth of Proctor Creek	265.00
22.6	Mouth of Chestnut Creek	267.00
24.0	Knights Ferry	270.80
25.6	Foot of Duncans Riffle	270.80
27.2	Mouth of Blue Creek	279.80
28.7	Mouth of Cargal Creek, Smiths Ferry	280.00
30.8	Mouth of Hatchet Creek	281.00
31.3	Zimmermans Ferry	281.33
34.0	Foot of Tuckaleague Shoal	292.00
37.0	Head of Tuckaleague Shoal	331.64
40.0	Mouth of Yellowleaf Creek, at Adam Ferry	343.64
41.3	Lower mouth of Paint Creek	360.00
45.0	Mouth of Waxahatchee Creek	380.00
46.0	Mouth of Kooga Creek	388.00
47.5	Spring Branch, head of Weduska Shoal	399.64
48.6	Mouth of Slaughter Creek	399.64
52.0	Merrills Ferry	399.64
53.0	Mouth of Peckerwood Creek, at foot of Peckerwood Shoal	399.64
54.3	Mouth of Sulphur Branch from Talladega Springs	402.80
55.0	Mouth of Cedar Creek, near Fort William Ferry	403.00
56.2	Mouth of Kelly Branch, foot of Fort William Shoals	407.80
56.9	Mouth of Flat Branch	413.00
59.0	Mouth of Sally Branch	413.00
60.2	Mouth of Beeswax Creek	413.00
60.8	McRaes Ferry	413.00
63.9	Mouth of Hay's spring branch	415.00
65.7	McGowans Ferry	421.00
66.6	Mouth of Upper Yellowleaf Creek	421.00
68.0	Southern Railway bridge, at mouth of Kahatchee Creek	421.00
74.1	Chancellors Ferry	421.00
75.2	Columbus and Western Railway bridge (Central of Georgia Railway)	422.00
75.7	Mouth of Tallaseehatchee Creek	422.00
76.7	Mouth of Talladega Creek	422.00
81.1	Mouth of Clear Creek, at Meyers Ferry	423.00
84.7	Mouth of Spring Creek, at Glovers Ferry	429.00
86.2	Mouth of Kelly Creek	431.00
90.4	Grissom Ferry	439.00
91.8	Mouth of Upper Clear Creek, at Howell's mill shoals	444.00
95.9	Griffiths Ferry, head of Drake's mill shoals	456.00
101.2	Collin Ferry and bridge of the Birmingham and Atlantic Railroad	461.00
102.0	Foot of Choccolocco Shoals	461.00
105.0	Mouth of Choccolocco Creek	469.00
106.8	Head of Choccolocco Shoals	475.00
108.0	Truss Ferry	475.00
111.3	Mouth of Blue Eye Creek	476.00
112.6	Bridge of Southern Railway, Riverside	476.00
114.5	Mouth of Blue Spring Branch	477.00
116.2	Foot of Lock 4	477.80

Elevations of water surface on Coosa River between Wetumpka and Greensport—Continued.

Distance from Wetumpka.	Location.	River Elevation above sea level.
Miles		
116.2	Zero of gage below Lock 4.....Bench Mark, 477.30	
116.2	Zero of gage above Lock 4.....Bench Mark, 489.30	
117.7	Mouth of Broken Arrow Creek	488.00
125.5	Wood Ferry	492.30
127.8	Mouth of Alligator Creek	493.00
129.0	Mouth of Trout Creek	493.00
130.0	Mouth of Bruner Creek, at Mays Ferry	494.00
131.4	Mouth of Cane Creek	495.00
136.0	Mouth of Ohatchee Creek, at Harts Ferry	496.00
136.4	Below East and West Railroad bridge	496.00
136.4	Above East and West Railroad bridge	498.00
137.0	Below Lock 3	498.40
137.0	Zero of gage below Lock 3 (U. S. A. Engineers).....Bench Mark, 494.40	
137.0	Zero of gage above Lock 3 (U. S. Engineers).....Bench Mark, 505.25	
137.0	Present (1903) water level above Lock 3	510.40
138.4	Present (1903) water level below Lock 2	510.40
138.4	Present (1903) water level above Lock 2	515.90
138.4	Zero of gage below Lock 2.....Bench Mark, 505.20	
138.4	Zero of gage above Lock 2.....Bench Mark, 510.57	
141.7	Present (1903) water level below Lock 1	515.90
141.7	Present (1903) water level above Lock 1	521.80
141.7	Zero of gage below Lock 1.....Bench Mark, 512.72	
141.7	Zero of gage above Lock 1.....Bench Mark, 517.89	

Surveys of Tallapoosa River and Tributaries.

Surveys of a part of Tallapoosa River in Alabama and of Big Sandy Creek, its tributary, were made in 1900, uper supervision of B. M. Hall, resident hydrographer, by Field Engineer James R. Hall, levelman and topographer.

The river survey began at the hydrographic station on Tallapoosa River, at Milstead, Ala., and ran up the river 64 miles to the head of the shoal above Griffin Ferry. The creek survey began at its mouth and extended up to new bridge near Dadeville. The elevations as shown are approximately on sea level datum.

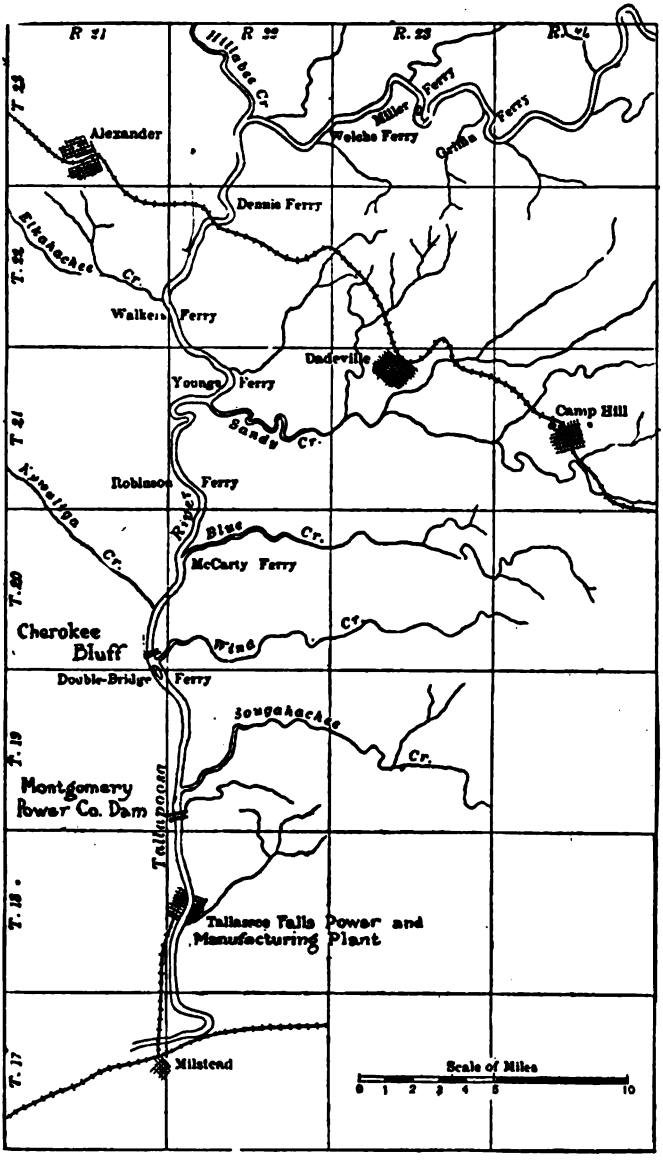

FIG 2.—MAP OF TALLAPOOSA RIVER FROM TOP OF GRIFFIN SHOALS TO MILSTEAD.

Elevations of bench marks and water surface along Tallapoosa River from Milstead to Griffin Shoals.

Distance from Milstead.	Location.	Bench mark.	Water surface.
Miles.			
6.0	Water surface of tail-water at Tallassee mills		206.3
6.2	Water surface above crest of Tallassee dam		269.9
8.5	Upper end of Tallassee pond		269.9
9.5	Water surface below Montgomery Power Company's dam		295.25
9.5	Crest of Montgomery Power Company's dam		335.25
15.7	Upper end of Montgomery Power Company's pond		335.25
16.5	Water surface at Double Bridge Ferry		351.46
16.8	Water surface at Cherokee Bluffs Dam site		352.45
16.8	Bench mark No. 7, bunch of mulberry trees at the mouth of Wind Creek	357.85	
17.8	Bench mark No. 22, crooked willow on small branch at north end of Taylor's field	363.80	
17.8	Water surface at bench mark No. 22		356.18
18.5	Water surface opposite mouth of Kowaliga Creek		357.16
18.75	Bench mark No. 33, mulberry 100 feet aboev old Baker field	371.73	
18.75	Water surface at bench mark No. 33		359.75
19.4	Bench mark No. 42, willow at Garnetts Ford	364.60	
19.4	Water surface at Garrett's Ford		360.55
19.7	Bench mark No. 46, pine at mouth of High Falls Branch	393.98	
19.7	Water surface at "blue hole" at mouth of High Falls Branch		362.40
20.1	Water surface at "blue hole" at foot of Long Branch Shoals		362.40
21.0	Bench mark No. 62, mulberry, 800 yards above mouth of Long Branch	382.45	
21.0	Water surface at bench mark No. 62, top of Long Branch Shoals		367.23
21.3	Bench mark No. 70, white hickory at McCarty's Ferry, mouth of Blue Creek	376.67	
21.3	Water surface at McCartys Ferry, mouth of Blue Creek		367.80
23.0	Top of shoal opposite mouth of Peru Branch		372.55
23.8	Water surface at mouth of Gold Mine Branch		375.17
23.8	Bench mark No. 100, mulberry at mouth of Gold Mine Branch	386.00	
24.4	Bench mark No. 110, water oak at Robinsons Ferry	404.40	
24.4	Water surface at Robinsons Ferry		380.20
25.6	Water surface at top of upper Robinsons Shoals		389.10
25.6	Bench mark No. 124, small sycamore at mouth of small branch	395.10	
27.7	Water surface at mouth of small branch in Pace's field		390.09
28.7	Bench mark No. 140, water oak at foot of Hardy Shoals, in Pace's field	414.30	
29.5	Bench mark No. 150, dead stump 100 feet below the mouth of Big Sandy Creek	398.08	
29.5	Water surface at mouth of Big Sandy Creek		393.80
30.0	Bench mark No. 165, big red oak at Youngs Ferry	413.50	
30.0	Water surface at Youngs Ferry		394.00
31.0	Water surface at Cherokee Bluff		394.60
31.2	Bench mark No. 175, big walnut 200 yards above Monowa Creek	416.75	
34.0	Bench mark No. 180, 10-inch pine tree at third bar of Seago Shoals	424.72	
34.0	Water surface at third bar of Seago Shoals, opposite bench mark No. 180		399.92
35.8	Bench mark No. 190, large white oak at east landing at Walkers Ferry	436.90	
35.8	Water surface at Walkers Ferry		429.65
37.0	Bench mark No. 210, leaning white oak at mouth of small branch at upper end of Upshaw place	438.60	
37.4	Water surface at bench mark No. 210		432.00
37.6	Water surface at top of fish trap		436.47
38.3	Bench mark No. 215, 16-inch white oak on small branch at upper end of Locke's old field	448.90	
38.3	Water surface at bench mark No. 215		438.00
39.3	Water surface under Central Railroad bridge at Sturdevant		444.25
39.3	Bench mark on top of rail over first pier of the east end of Central Railroad bridge	505.90	
41.2	Bench mark No. 240, large water oak at east landing of Dennis Ferry	457.15	
41.2	Water surface at Dennis Ferry		445.85

Elevations of bench marks and water surface along Tallapoosa River from Milstead to Griffin Shoals—Continued.

Distance above mouth.	Location.	Bench mark.	Water surface.
Miles.			
42.2	Water surface at mouth of branch on left bank of river		448.20
45.3	Water surface 600 feet below mouth of Hillabee Creek		472.60
48.3	Bench mark No. 310 water oak at east landing of Welchs Ferry	504.15	
48.3	Water surface at Welchs Ferry		492.30
50.0	Bench mark No. 330, beech 150 feet above mouth of Freemans Branch	526.62	
50.0	Water surface 150 feet above mouth of Freemans Branch		521.04
52.0	Water surface at Whaleys Ferry		529.48
52.0	Bench mark No. 340, birch at Whaleys Ferry	539.88	
55.4	Bench mrak No. 350, 10-inch birch at Millers Ferry	552.16	
55.4	Water surface at Millers Ferry		544.00
60.8	Water surface at Griffin Ferry		557.10
60.8	Bench mark No. 380, double ash tree on left bank at Griffin Ferry	564.76	
62.0	Bench mark No. 390, 12-inch birch at head of Griffin Shoals	573.87	
62.0	Water surface at head of Griffin Shoals		570.30

Elevations of bench marks and water surface along Big Sandy Creek between its mouth and the new bridge near Dadeville.

0.0	Bench mark No. 150, dead stump at mouth of creek	398.08	
.0	Water surface at mouth of Big Sandy Creek		393.80
.95	Water surface below Pace's dam		402.00
.95	Water surface abovee Pace's dam		412.10
1.06	Bench mark No. 160, big pine on north side, 175 feet above Pace's bridge	422.30	
1.52	Creek surface		416.00
1.89	At point of Ivy Bend		419.00
2.22	Bench mark No. 162, large walnut at Tucker's house	503.85	
2.56	Bench mark No. 163, small oak at Tucker's fish trap	432.85	
2.56	Water surface above Tucker's fish trap		430.00
3.79	Bench mark No. 164, large sycamore at mouth of Lowry Branch	445.20	
3.79	Water surface at mouth of Lowry Branch		436.10
5.02	Bench mark No. 166, oak post at north end of Smith's bridge	463.95	
4.92	Water surface at Smith's bridge		441.70
5.02	Zero of United States Geological Survey gage at Dadeville	440.50	
6.34	Bench mark No. 167, wahoo tree at mouth of Young Branch	559.58	
6.34	Water surface at mouth of Young Branch		446.50
6.70	Water surface at Barnes basin		452.30
7.18	Water surface at foot of Black Shoals		465.00
7.44	Water surface at top of Black Shoals		496.30
7.78	Water surface at mouth of Buck Creek		497.30
7.78	Bench mark No. 168, small double oak at mouth of Buck Creek	503.65	
7.98	Eddy water below Sanford's dam		500.00
8.06	Bench mark No. 169, hickory at Sanford's mill	522.10	
8.06	Floor of Sanford's mill	514.00	
8.29	Water surface at Sanford's bridge above dam		506.70
8.63	Water surface at head of Sanford's pond		506.70
9.47	Water surface at second shoal above Sanford's pond		512.50
9.91	Bench mark No. 173, large white oak near north end of Cook's bridge	539.85	
9.91	Water surface at Cook's bridge		513.80
10.63	Water surface opposite mouth of Chattasofka Creek		520.60
10.63	Bench mark, 16-inch water oak on west bank of Chattasofka Creek, 50 feet above mouth	527.20	
11.10	Water surface at top of old factory shoal		540.15
12.38	Water surface at new bridge		550.80
12.38	Bench mark on upstream end of sill on west end of new bridge	562.30	
12.38	Bench mark No. 176, 6-inch maple at new bridge	563.00	

Survey of Tallapoosa River (Upper Section.)

A survey of Talapoosa River from the Southern Railway bridge near the Georgia-Alabama State line, a short distance west of Tallapoosa, Ga., was made in 1904 under the direction of M. R. Hall, District Engineer, by W. E. Hall and A. T. Mitchelson.

The elevations given are above sea level based on bench marks near the upper end of the survey. As will be noted, the elevation of points near Matilda do not agree with the elevations of the former survey of the lower section of the river.

Elevations along Tallapoosa River from Tallapoosa, Ga., to Maltida, Ala.

Distance from Tallapoosa, Georgia.	Description of Points.	Bench Marks above sea level.	River surface above sea level.
Miles.			
0.0	Southern Railway Bridge across river B. M. No. 0, Pier right bank	925.81	915.5
1.0	Bell Telephone line to Birmingham		911.8
2.2	Ford. B. M. No. 5 Hickory on left bank	927.83	910.8
2.8	State line between Georgia and Alabama		910.8
4.0	Barnes Mill above dam		910.8
4.0	Barnes Mill below dam		906.6
4.8	Mouth of Muscadine Creek		901.8
5.0	Foot of Kilgore Shoal		899.2
7.0	B. M. No. 13 on large ash, above Scott Shoal	899.34	895.0
7.0	Below Scott Shoal		893.7
9.0	Near Clayton wagon bridge above fish trap		889.4
9.0	Below fish trap		887.8
9.7	Near Williams Branch above shoal		887.6
9.8	Near Williams Branch below shoal		885.2
10.5	Mouth Wolfe Creek		884.6
10.7	Below fish trap		882.7
13.7	Lyons Mills Pond		882.3
13.8	At Lyons Mills below dam		875.4
17.3	Head of Tumlins Mill pond		867.6
20.3	Crest of Tumlins Mill dam	867.58	867.6
20.3	Below Tumlins Mill dam		860.5
23.2	Edwards Bridge, B. M. No. 25, water oak, left bank	861.98	851.1
27.6	Bells Mill above dam		846.3
27.6	Bells Mill below dam		840.6
30.5	Mouth of Sheep Creek		833.0
32.0	Below small shoals		829.0
31.1	Evans Steel Bridge, top of cylindrical pier, right bank	850.24	822.8
36.8	Ross Bridge to Heflin		816.8
37.6	Mouth of Chulga Creek		815.1
39.5	Nelms Bridge		812.2
44.5	Mouth of Dyne Creek below Dunham's Bridge		798.1
48.8	Dothards Mill, crest of dam	795.80	795.8
48.8	Dothards Mill, below dam		789.4
53.6	Mouth of Ketchemedoggee Creek B. M. No. 44 on birch	781.79	776.6
55.1	Above fish trap		768.0
55.1	Below fish trap		765.4
56.4	Above fish trap at mouth of Gobbler Creek		765.2
56.4	Below fish trap at mouth of Gobbler Creek		763.4
57.9	Below old fish trap		755.3
59.2	Shoal Creek, mouth above fish trap, head of Plunket Shoal		754.9
61.5	Below fish trap		744.2
62.6	Foot of fish trap, mouth Hugh Harris Creek, Old East Ferry		739.1
62.6	Water Oak, left bank	746.40	
64.0	Head of small shoal		733.8
64.0	Foot of small shoal		730.3
64.7	Butlers Ferry B. M. No. 52, birch, right bank	736.28	730.1

Elevations along Tallapoosa River from Tallapoosa, Ga., to Maltida, Ala. —Continued.

Distance from Tallapoosa, Georgia.	Description of Points.	Bench Marks above sea level.	River surface above sea level.
Miles.			
66.5	Mouth, Mad Indian Creek		715.4
67.4	Water above Hendon's Mill		712.7
67.4	Water below Hendon's Mill		707.1
67.4	Hendons Mill dam, nail in base of beech tree, marked "No. 54," on right bank of river about 100 feet to right end of mill race, and 300 feet below right end of dam	728.35	
67.9	Island ford, surface of water		708.9
68.4	Fish trap above, surface of water		702.2
68.4	Fish trap below, surface of water		701.3
69.2	Little Tallapoosa River, on left side of river, nail in base of willow tree marked "No. 55," on left bank of river upper bank, at forks of the Tallapoosa and Little Tallapoosa Rivers	704.76	698.5
69.2	Burrow's Ferry, about 100 feet below the mouth of Little Tallapoosa River		698.5
70.0	Shoals, head of surface of water		694.3
70.1	Shoals, foot of		692.4
70.2	Surface of water		691.8
71.2	Shoals, head of		688.5
71.7	Shoals, foot of		684.0
72.1	Fish trap above, surface of water		683.4
72.1	Fish trap below, surface of water		681.0
72.8	Surface of water		680.2
74.0	Fox Creek, on right side of river, nail in base of poplar tree, marked "No. 56," on upper side of creek, about 100 feet to left of edge of river	695.08	679.8
74.5	Shoals, head of		679.4
74.6	Shoals, foot of		678.1
74.7	Blakes Ferry, nail in base of sycamore tree, marked "No. 57," on right side of river, upper side of wagon road	685.84	678.1
75.7	Morris Shoals, head of		676.6
76.0	Morris Shoals, opposite rock bluff		674.0
76.7	Hunter Creek, on left side of river, nail in base of water oak tree, marked "No. 58," on upper bank of creek, about 100 feet to the left of the edge of the river	680.38	668.6
77.1	Morris Shoals, foot of		667.0
77.8	Fish trap shoals, head of		666.9
78.0	Fish trap shoals, small eddy		665.8
78.4	Fish trap shoals, foot of		663.8
79.1	Mitchell's Ferry, nail in base of oak tree, marked "No. 59," on right bank of river, upper side of ferry landing	666.15	660.6
79.9	Crooked Creek, on right bank of river, nail in base of birch tree marked "No. 60," on upper side of creek, 100 feet to right of river	665.83	657.6
80.5	Welborn's Ferry, nail in root of water oak tree, marked "No. 61," on left bank of river, on lower side of wagon road	664.44	653.5
81.8	Mullins shoals, above fish trap, top of shoals		648.1
82.6	Mullins Shoals, below fish trap		644.9
83.0	Surface of water		644.8
83.2	Browning's ferry, nail in base of twin water oaks, marked "No. 62," on right bank of river, 50 feet above ferry landing	662.04	644.4
84.5	Surface of water		642.4
85.7	Cornhouse Creek, on left side of river nail in root of large water oak, marked "No. 63," on right bank of river just below Malone ferry landing opposite mouth of creek	654.0	639.1
85.7	Malone's Ferry		639.1
86.7	No Business Creek, on left side of river, mouth of		637.5
87.2	Fish trap, above		637.4
87.3	Fish trap, below		636.4
87.6	Fish trap, above		636.2
87.7	Fish trap, below		634.9
87.9	Wilson Shoals, head of		634.8
88.8	Hurricane Creek, on right side of river nail in base of triple chestnut tree, marked "No. 63," on upper bank of creek 200 feet to right of river's edge	637.38	629.1
89.0	Wilson Shoals, in shoals		626.2

Elevations along Tallapoosa River from Tallapoosa, Ga., to Maltida, Ala. —Continued.

Distance from Tallapoosa, Georgia.	Description of Points.	Bench Marks above sea level.	River surface above sea level.
Miles.			
89.2	Wilson Ferry, at Levonia, Ala., nail in base of water oak, marked "No. 65," on right bank of river, 10 feet below ferry landing	630.12	624.4
89.6	Wilson Shoals, good site for a dam		622.8
89.7	Wilson Shoals, in shoals		619.7
90.0	Cedar Creek, on right side of river, mouth of		616.6
90.1	Wilson Shoals, foot of		616.4
90.7	Eddy water		615.1
91.1	Shoals, head of		615.0
92.5	Shoals, foot of, at wagon bridge		
92.5	Louina wagon bridge, 4 miles west of Louina, top of right bank, stone pier upper side of bridge marked "No. 66"	647.57	604.3
92.5	Louina wagon bridge, nail in base of water oak marked "U. S. G. S. No. 67" on right side of river 209 feet below approach to bridge on west side of wagon bridge	631.30	
92.9	Louina Ford, nail in base of beech tree marked "No. 68," on right bank of river, 50 feet above wagon road	612.89	602.9
93.4	Hutton Creek, nail in base of large beech tree, marked "No. 69," on lower bank of creek, 200 feet to right of right bank of river	613.73	602.2
94.3	County line between Randolph and Chambers counties		602.1
94.3	Wilkins Shoals, head of		602.1
94.8	Wilkins Ferry, nail in base of water oak, marked "No. 70," on right bank of river about 100 feet above ferry	614.32	595.9
94.8	Wilkins Shoals, foot of		595.9
95.8	Small Shoals, head of		594.2
95.8	Small Shoals, foot of		593.5
95.8	High Pine Creek, on left side of river, nail in base of white oak, marked "No. 71," opposite mouth of creek	607.98	593.5
97.5	Denny's ferry, nail in root of large water oak, marked "No. 72," on right side of river, about 200 feet from river on lower edge of road	614.79	591.5
98.0	Shoals, head of		590.6
99.3	Shoals, foot of at lower end of long island		585.8
100.00	Chicasanoca Creek, on left side of river		584.5
102.1	Fant's Ferry, nail in base of big birch marked "No. 73," on left side of river 20 feet left of ferry landing lower side of road	587.10	582.3
102.6	Stedhams Shoals, head of		582.0
103.4	Stedhams Shoals, foot of		576.6
103.8	Shoals, head of		576.4
104.0	Good site for dam, nail in base of ash tree, marked "No. 74," on hill side 200 feet to left of river, 20 feet left of spring	595.96	571.0
104.0	Shoals, foot of		569.3
104.8	Bibbes Ferry, nail in base of big water oak, marked "No. 75," on left side of river, about 50 feet to left of river about 150 feet above ferry landing	584.13	569.2
105.5	Shoals, head of		567.8
106.1	Shoals, foot of		565.8
106.1	County line between Randolph and Tallapoosa counties		565.8
107.0	Hodnutt Creek, on right bank of river nail in base of big ash tree, marked "No. 76," on upper bank of creek, about 75 feet to right of river, head of shoals	574.81	564.7
107.4	Shoals, foot of		562.2
107.9	Big Island, head of		562.0
109.0	Fredrick's Ferry, nail in root of big ironwood tree, marked "No. 77," right side of river, upper side of road, 100 feet to right of ferry landing	570.02	557.9
110.2	B. M. No. 78 on oak, right bank, just below Galloway Creek	587.24	557.6
112.7	Germany's Ferry B. M. No. 80, water oak, on right bank	574.12	557.1
114.9	Butts Ferry		556.7
116.0	Mouth of Sapstone Creek		556.7
116.4	Head of Griffin Shoal B. M. No. 82, ash on right bank	564.05	556.7
117.5	Griffins Mill and Ferry at Matilda, Ala. B. M. No. 82. Willow on left bank	547.22	442.4

NOTE.—The survey up river from Tallassee ended in this vicinity but is on a different datum taken at Tallassee.

Survey of Cahaba River.

Cahaba River rises near Birmingham, and, flowing in a southerly direction, enters Alabama River just below Selma.

The Corps of Engineers, United States Army, made a survey of this stream, beginning at the southwestern boundary of Shelby County, and running down the river 110 miles to its mouth, in which distance there is a fall of 256 feet. The level notes of this survey are given on the following pages.

Elevations of water surface of Cahaba River in Alabama from its mouth up to the line of Shelby County.

[Survey by United States Engineer Corps in 1874.]

Distance above mouth.	Location.	Elevation above mean low water of Alabama River at mouth.
Miles.		Feet.
0.0	Alabama River at mouth of Cahaba	0.00
13.2	Below Tallys Defeat Island	22.40
13.3	Above Tallys Defeat Island	23.66
16.0	Foot of Log Creek Shoals	25.45
20.0	Had of Log Creek Shoals	31.85
24.6	Line between Dallas and Perry counties	37.50
25.2	Mouth of Oakmulgee Creek	38.00
41.8	Fikes Ferry	62.47
42.0	Mouth of Waters Creek	64.15
44.0	Shoal	67.50
44.4	Shoal	69.00
46.7	Shoal	73.62
49.0	Foot of Burras Island Shoal	77.50
49.5	On Burras Island Shoal	80.92
50.0	Head of Burras Island Shoal	90.11
53.0	Shoal	92.14
53.8	Shoal	95.08
55.1	Blocks Cut-off	97.90
55.3	Blocks Cut-off	98.50
55.7	Blocks Cut-off	99.70
56.8	Shoals	100.39
57.0	Below Potato Creek Shoals	101.82
58.1	Above Potato Creek Shoals	107.00
61.6	Below Jericho Island	109.30
63.2	Above Jericho Island	111.20
65.3	Cluster of islands, mouth of Blue Girth Creek	113.55
65.7	Cluster of islands above mouth of Blue Girth Creek	114.65
67.6	Below small shoal	115.50
67.7	Above small shoal	116.30
69.2	Small shoal	116.50
70.2	Line between Perry and Bibb counties	118.00
74.8	Foot of shoal	123.40
75.5	Head of shoal	125.30
81.6	Foot of shoal	131.80
82.6	Head of shoal	132.80
85.7	Maberrys Island	133.70
86.7	Ferry, Centerville, Ala., below shoal	134.40
86.7	Ferry, Centerville, Ala., above shoal	136.40
87.5	Mouth of Mill Creek	139.60
88.4	Top of Centerville Shoal (in township 23)	148.00
90.0	Logans Ferry, mouth of Schultz Creek	148.00
91.0	Crossing of range lines 9 and 10	149.00
92.0	East and west line townships 23 and 24	149.00
92.5	Small shoal	149.88
93.0	Mouth of Buckhalter or Huckleberry Creek	151.00
93.2	Jones Ferry	151.00
94.0	Point Lookout	151.90
94.2	Mouth of Rocky Creek	152.00
94.5	Mouth of Palmetto Creek	152.40

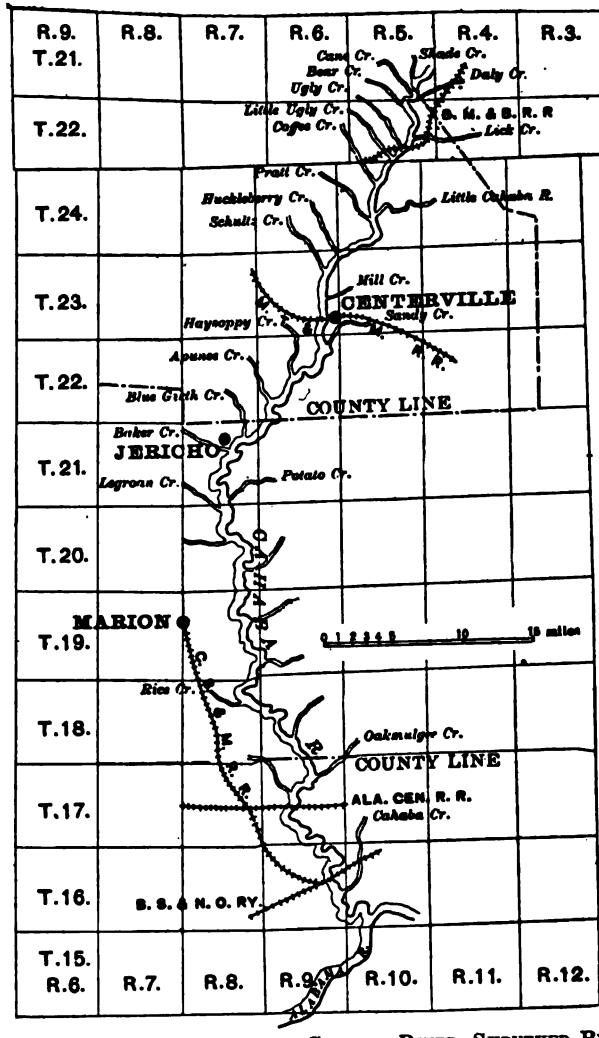

FIG. 3.—MAP OF PORTION OF CAHABA RIVER, SURVEYED BY CORPS OF ENGINEERS, U. S. A.

outh

mean low water of Alabama River at mouth.
ft.
62.61
65.00
68.00
68.00
69.40
71.50
78.00
82.00
84.26
85.20
89.60
89.60
92.00
94.80
95.00
95.00
95.00
98.50
113.00
116.60
120.00
120.00
121.80
124.50
126.60
128.40
131.30
148.50
152.00
154.00
155.88

km,

Date of completion.
1915
1915
1910
1910
1905
1895
1895
1895
1902
1903
1903
1908
1908
1908

F

Elevations of water surface of Cahaba River in Alabama from its mouth up to the line of Shelby County—Continued.

Distance above mouth.	Location.	Elevation above mean low water of Alabama River at mouth.
Miles.		Feet.
94.8	Pratts Ferry, in township 24 N., R. 10 E.	152.61
96.0	Below Little Cahaba Shoals	155.00
97.1	Mouth of Little Cahaba River	158.00
97.2	Below small shoal	158.00
97.3	Above small shoal	159.40
97.8	Mouth of Pratts Creek	161.50
98.1	Mouth of Lewis Branch	163.00
98.5	Mouth of Coalbed Branch	172.00
99.1	Opposite Lyman coal shaft at Lick Branch	184.26
99.5	Below small shoal	185.20
99.6	Above small shoal	189.60
99.7	Mouth of Coffee Creek	189.60
100.1	Foot of Bailey Reach Rapids	192.00
100.6	Head of Bailey Reach Rapids	204.80
101.4	Mouth of Little Ugly Creek	205.00
102.1	Mouth of Ugly Creek, in township 22 S., R. 5 W.	205.00
102.7	Below small shoal	205.00
102.8	Above small shoal	208.50
103.6	Foot of Lily Shoals	213.00
103.7	Lily Shoals Ford	216.60
104.4	Mouth of Lick Creek	220.00
104.6	Mouth of Bear Branch	220.00
105.7	Mouth of Daly Creek, east and west line sections 11 and 14	221.80
105.8	Above small shoal	224.50
106.3	Small shoal	226.60
106.5	Small shoal	228.40
107.0	Foot of Long Island Shoal	231.30
107.4	Mouth of Cane Creek	243.50
107.9	Head of Halfmile Rapids	252.00
109.2	Locke Ford	254.00
110.3	Mouth of Shades Creek, Shelby County line	255.88

Elevations up Tombigbee, Warrior and Black Warrior Rivers, Datum, Mean Low Tide, Mobile Bay.

(From Profiles in Office of U. S. Engineer Corps.)

Miles from Mobile.	Lock No.	River.	Low water original river.	Pool below dam.	Crest of dam and pool above.	Coping at lock.	High water mark, April, 1900.	Date of completion.
444.8	17	Head of Upper Pool, Mulberry Fork	236.2	.....	244.0	.....	285.0	.....
425.4	17	Head of Upper Pool, Locust Fork	242.4	.....	244.0	.....	277.0	.....
388.0	17	Black Warrior River	170.4	181.0	244.0	258.0	196.0	1915
386.4	16	Black Warrior River	151.5	160.0	181.0	193.0	186.0	1915
380.5	15	Black Warrior River	135.0	146.0	160.0	172.0	177.0	1910
373.5	14	Black Warrior River	126.0	132.0	146.0	158.0	167.0	1910
370.1	13	Black Warrior River	113.0	119.86	132.0	144.0	163.0	1905
363.1	12	Black Warrior River, Tuscaloosa, Ala.	98.2	109.86	119.86	134.86	158.0	1895
362.4	11	Black Warrior River, Tuscaloosa, Ala.	91.0	100.86	109.86	124.86	154.0	1895
361.9	10	Black Warrior River, Tuscaloosa, Ala.	85.0	91.0	100.86	113.86	153.0	1895
315.0	9	Warrior River	78.4	81.0	91.0	104.0	125.0	1902
298.2	8	Warrior River	66.7	71.0	81.0	94.0	120.0	1903
282.2	7	Warrior River, near Eutaw, Ala.	58.1	61.0	71.0	84.0	113.0	1903
266.7	6	Warrior River	48.6	51.0	61.0	74.4	108.0	1908
246.0	5	Warrior River	37.4	41.0	51.0	64.0	100.0	1908
230.5	4	Tombigbee River, Demopolis, Ala.	27.0	31.0	41.0	54.0	96.0	1908
204.0	3	Tombigbee River	.....	21.0	31.0	.....	.....	.....
182.0	2	Tombigbee River	.....	11.0	21.0	.....	.....	.....
111.0	1	Tombigbee River	.....	0.0	11.0	.....	.....	.....

SUMMARY OF WATER POWERS.

The object of this chapter is to give an approximate idea of the vast water power resources of this State and to mention a few of the larger developments that have been recently made or are planned for construction.

In the following tabulated statement, the "Low Water for average year," is arrived at by taking the average flow for the two lowest weeks, in each year for seven years, taking the average of these for a low water basis, allowing for a daily storage of 14 hours flow, and figuring the ten-hour horse-power available. In making additions to the power thus obtained for a proper wheel installation to take care of peak loads and profitable higher stages of river, it is necessary to consider the storage possibilities, not only at the power site under construction, but also at powers on the same stream above it. In the following tabular statement, these additions are shown by percentages which vary according to the known conditions from 0 per cent to more than 200 per cent.

The table includes both the developed and undeveloped powers of the State and is based on the profiles of the rivers as established by surveys of the U. S. Geological Survey and the U. S. Engineer Corps. Ownership of property is not given in the tables and no distinction is made between the developed and undeveloped power.

This list does not include all the powers of the State by any means. The hundreds of important tributaries, and the rivers in the southweastern part of the State, have a large amount of undeveloped power on them, but as no surveys have yet been made to determine the fall on these streams, any estimate of power would be guess work.

It is true, however, that the records of stream flow given in this volume, will furnish data for estimating the water supply on any of these streams, either directly or by comparison with similar water sheds.

The survey to determine the fall at any particular shoal is a simple matter, requiring a very short time, and can be made by an engineer at any time of year, for clients desiring this information. After determining the fall, the water supply can be obtained from this publication as above indicated, and proper computation made of the power obtainable.

Summary of Water Powers.

	Low water average year.	Fall in feet.	Net 10-hr. horsepower.	Additional wheel capacity warranted.	Total horsepower wheel capacity.
	Sec.-Ft.	Feet.	H. P.	%	H. P.
TALLAPOOSA RIVER					
So. Ry. Bridge near Tallapoosa to Evans Bridge at Heflin, 34 miles	200	93	3,670	25%	4,500
Heflin to mouth of Little Tallapoosa, 35 miles	280	125	6,840	25%	8,500
Thence to head of Griffin Shoals near Matilda, 47 miles	640	142	17,800	33%	23,700
Thence to Whaley's Ferry, 10 miles	700	38	5,760	33%	7,800
Whaley's Ferry to foot of proposed dam at Cherokee Bluff, 36 miles	1,000	165	36,000	260%	130,000†
Thence to tail water. Montgomery Power Co.'s dam, 7 miles	1,060	56	12,900	.....	*
Thence to back water of Tallassee Falls dam, 1 mile	1,060	24	5,500	.....	*
Thence to tail water, Tallassee Falls dam, 2½ miles	1,060	64	14,900	.....	*
Little Tallapoosa River from Georgia state line to mouth, 50 miles	187	150	6,000	25%	7,500
Big Sandy Creek, 12 miles	100	148	3,200	25%	4,000
Hillabee Creek, 12 miles	115	90	2,000	0%	2,000
COOSA RIVER					
From Gadsden to foot Lock 4, 49 miles	2,000	40	18,200	0%	18,200
Lock 4 to new Lock 7, 36 miles	2,500	60	27,000	50%	40,000
Foot of Old Lock 9 to foot of Lock 12 dam, 37 miles	3,000	68	44,000	60%	70,000
Foot of Lock 12 dam to foot dam site 14, 8 miles	3,300	58	41,000	60%	65,000
Dam site No. 14 to dam site No. 15, 12 miles	3,500	40	30,000	60%	48,000
Dam site No. 15 to dam site No. 18, 14 miles	3,700	64	50,000	60%	80,000
Dam site No. 18 to Wetumpka, 7½ miles	3,800	22	27,000	0%	27,200
COOSA RIVER TRIBUTARIES.					
Little River on Lookout Mountain	121	550	14,500	260%	52,000‡
Choccolocco Creek, 30 miles	110	130	4,000	25%	5,000
Talladega Creek, 22 miles	73	178	2,800	25%	3,500
CAHABA RIVER					
Mouth of Shades Creek, S. W. boundary Shelby County to mouth of Coffee Creek, 10 miles	165	66	2,100	.....	*
Mouth of Coffee Creek to foot of shoal at Centerville, 13 miles	238	55	2,850	.....	*
Centerville to mouth of Blue Girth Creek near Jericho, 21 miles	286	21	1,800	.....	*
Jericho to mouth of water creek near Fikes Ferry, 21 miles	330	49	3,500	.....	*
Water Creek to mouth Oakmulgee Creek ½ mile above Perry and Dallas county line, 17 miles	374	383	3,000	.....	*
Oakmulgee Creek to foot of Tally's Defeat Island, 12 miles	418	14	1,200	*	
Tally's Defeat Island to Alabama River at mouth of Cahaba River, 13 miles	418	22	2,000	*	
TENNESSEE RIVER					
From mouth of Flint River to foot of proposed Dam No. 4, four miles	10,000	40	87,000	*	a
Foot of Dam No. 4 to foot of Dam No. 3, six miles	10,000	35	76,000	*	a
Foot of Dam No. 3 to foot of Dam No. 2, 11 mi.	10,000	64	140,000	*	a

†With storage.
*Not computed.
‡Estimate by company.
a—This is an excellent site for the Government Nitrate Plant. See "Power at Muscle Shoals," pages 382 to 401 inclusive.

Water Powers of Black Warrior, Warrior and Tombigbee Rivers In Alabama.

As all of the dams on this system are completed, and the fall at each is fully established together with a full record of high water and low water elevations, as is shown on Plate VI, between pages 368 and 369, it is considered best to give the following statement in connection with the tabular summary of powers:

Beginning at tide water on the Tombigbee River and going upstream through the Tombigbee, Warrior and Black Warrior Rivers, a stretch of river bed not previously navigable has been made navigable for a distance of 333 miles for transportation of coal and other freight between the Warrior coal fields near Birmingham, Ala., and the Gulf of Mexico.

In order to obtain this navigable channel, the U. S. Government has constructed a continuous flight of dams and locks, seventeen in number, with a total lift of 244 feet.

The lowest lift is 8.5 feet and the highest is 63 feet, the total being distributed as follows: 1 lift of 11 feet, 9 lifts of 10 feet each, one lift of 8.5 feet, one lift of 10.5 feet, one lift of 12 feet, two lifts of 14 feet each, one lift of 21 feet and one lift of 63 feet. The last lift is made by a flight of two locks, known as Lock 17. The dam at this point makes a lake 56 miles in length. Lock and Dam 16 and Lock and Dam 17 were constructed by the Hardaway Contracting Company, being completed in 1915, under the general supervision of Lieut. Col. Charles Keller, and the direct supervision of Mr. George K. Little, Assistant Engineer, Corps of Engineers, U. S. A.

As the dams are already constructed, and the flowage rights are being paid for by the Government, this ought to furnish exceptional opportunity for the cheap development of water power. The main discouragement to such development lies in the fact that the stream is very irregular in flow, varying from a minimum stage of 150 cubic feet per second, up to a maximum flood stage of about 150,000 cubic feet per second. Naturally these dams tend to modify the low stages to some extent, and in operating water powers on a ten hour per day basis, a material regulation could be effected by placing low flash-boards on some of the dams. The most important storage could be obtained by a flash-board on Dam No. 17, but for proper distribution of this daily storage to all of the other dams below, certain of the other dams should also have flash-boards, especially Nos. 12, 9 and 5.

In addition to giving the required daily storage, these flash-boards will equalize the low stages, and thus increase the low water

stage to be considered in estimating the power obtainable. For instance instead of taking absolute minimum, it is estimated that a safe low water flow at Tuscaloosa may be taken as 320 second feet. Figuring on this basis, the following table gives the estimated power obtainable at the different locks:

TABLE No. 1.—*Water Powers on the Warrior Navigation System.*

Lock No.	Miles of pond above lock.	Low water in second-feet.	Fall at lock in feet.	Horsepower, 24 hours per day.	Horsepower, 10 hours per day.	River.
17	56.0	286	63.0	1,638	3,930	Black Warrior
16	1.6	286	21.0	546	1,310	Black Warrior
15	6.5	297	14.0	378	907	Black Warrior
14	6.5	308	14.0	392	940	Black Warrior
13	4.0	320	12.0	350	840	Black Warrior
12	6.8	320	10.5	305	732	Black Warrior
11	0.8	320	8.5	247	593	Black Warrior
10	0.8	320	10.0	291	700	Black Warrior
9	46.0	374	10.0	340	816	Warrior River
8	17.0	396	10.0	360	864	Warrior River
7	16.0	418	10.0	380	912	Warrior River
6	16.0	429	10.0	390	936	Warrior River
5	20.0	440	10.0	400	960	Warrior River
4	16.0	1,540	10.0	1,400	3,360	Tombigbee River
3	26.5	1,573	10.0	1,430	3,432	Tombigbee River
2	22.0	1,595	10.0	1,450	3,480	Tombigbee River
1	71.0	1,650	11.0	1,650	3,960	Tombigbee River
	333.0		244.0	11,947	28,672	

This table (No. 1) shows that at low water these 17 locks could be made to produce an aggregate of 11,947 horse power 24 hours per day, or 28,672 horse power 10 hours per day.

Wheel plants to utilize these powers would not be expensive, but there would be another difficulty to contend with. Flood stages of the river would not only cut down the power by decreasing the fall, but would actually submerge most of the power plants unless vertical wheels are used, with long shafts connected to generators or pulleys situated above high water mark. In some locations this elevation can probably be more cheaply attained by chain or link belt drives run on a slope from horizontal wheels, or by some other contrivance to avoid the building of high structures in the river bed.

A head race or penstock, one mile in length, could take water from the pool above Lock 12 and discharge it as tail water into the pool below Lock 10, thus utilizing it as a single head of 29 feet less the friction in head race, instead of the separate heads at Locks 10, 11, and 12.

High water would periodically drown the wheels at all locks except Lock 17, unless sufficient storage is provided on the head waters

above Lock 17. Such storage would benefit navigation, enlarge the water power output, and prevent or greatly modify the periodical drowning of the water wheels.

Mr. H. C. Mower, Assistant Engineer, in "Professional Memoirs, Corps of Engineers U. S. A.," copy of May-June 1915, states that a water power company has made a study of the storage on tributaries above, and that they find it apparently feasible to construct storage dams on upper tributaries above Lock 17, that will store flood waters sufficient to turn loose a flow of 2,000 second feet 10 hours per day during such periods as it may be needed for supplementing the natural flow of the stream. Such an arrangement would be equivalent to adding 181.8 net ten-hour horse power per foot of fall to all of the water powers at the locks below, or a total of 44,359 ten-hour horse power for the total fall of 244 feet. Its distribution is shown by the following tabular statement:

TABLE No. 2.—*Water Powers on Warrior System with proposed storage dam on head waters that will add 2,000 second-feet ten hours per day when needed to supplement the flow of stream at low water.*

Lock 17	Fall 63.0 ft.—10 hour H. P. or equivalent	15,885
Lock 16	Fall 21.0 ft.—10 hour H. P. or equivalent	5,127
Lock 15	Fall 14.0 ft.—10 hour H. P. or equivalent	3,452
Lock 14	Fall 14.0 ft.—10 hour H. P. or equivalent	3,485
Lock 13	Fall 12.0 ft.—10 hour H. P. or equivalent	3,022
Lock 12	Fall 10.5 ft.—10 hour H. P. or equivalent	2,641
Lock 11	Fall 8.5 ft.—10 hour H. P. or equivalent	2,138
Lock 10	Fall 10.0 ft.—10 hour H. P. or equivalent	2,518
Lock 9	Fall 10.0 ft.—10 hour H. P. or equivalent	2,634
Lock 8	Fall 10.0 ft.—10 hour H. P. or equivalent	2,682
Lock 7	Fall 10.0 ft.—10 hour H. P. or equivalent	2,730
Lock 6	Fall 10.0 ft.—10 hour H. P. or equivalent	2,754
Lock 5	Fall 10.0 ft.—10 hour H. P. or equivalent	2,778
Lock 4	Fall 10.0 ft.—10 hour H. P. or equivalent	5,178
Lock 3	Fall 10.0 ft.—10 hour H. P. or equivalent	5,250
Lock 2	Fall 10.0 ft.—10 hour H. P. or equivalent	5,298
Lock 1	Fall 11.0 ft.—10 hour H. P. or equivalent	5,960
	Total 244.0	73,032

The above estimate of powers available is based on the assumption that a sufficient storage of storm water can be provided on upper tributaries to supply 2,000 second feet for 10 hours per day additional to the low water flow used for estimates in Table No. 2, at such times as it may be required.

If a more thorough investigation shows 2,000 second feet 10 hours per day cannot be thus provided, or that even a greater storage is possible, any storage that may be found practicable will increase the 10-hour power of Table No. 2, by the power due to the amount of stored water added.

The head of 11 feet at Lock No. 1 would not be available as a power head, but is given as the maximum lift at the lock. The

actual power head would vary with the tide and with the stage of the river. The horse power set opposite this lock in Tables No. 1 and 2 is therefore given as the best approximation to the maximum power obtainable at that lock.

In operating at all of the other locks, a slight increase in the volume of water will make a slight decrease in the fall from head water to tail water, but the power will be maintained by the extra quantity of water discharged through the wheels, until a point is reached where the surplus wheel capacity provided at the plant is not sufficient to make up for the loss of head. After reaching this point the power will decrease but a constant speed will be maintained by the water wheel governor.

In each case, it will therefore be necessary to install such surplus wheel capacity as may be found most economical for the conditions to be provided for.

IMPORTANT WATER POWERS.

Coosa River System.

From Lock 4 down to Wetumpka, the Coosa River falls 312 feet, all of which can be utilized for power, by six big dams that have been planned by the Engineer Corps, U. S. A., with locks at each dam that will make continuous navigation along this entire section of river.

Only one of these dams has been built so far. This is the 68-foot dam at Lock 12, completed in 1914 by the Alabama Power Company and equipped with four power units. Each unit consists of a single turbine on vertical shaft with 17,500 H. P. capacity, directly connected to an umbrella type generator on upper end of same shaft; the total water wheel capacity at the plant being 70,000 H. P. There is also a sub-structure for extending the power house and installing two more units of same capacaity each, and thus bring the total future installation up to a wheel capacity of 105,000 H. P.

If the other five proposed dams between Locks 4, and Wetumpka are built and the power correspondingly developed, the wheel installations from Lock 4 to Wetumpka would be as follows:

Lock 7—60 feet fall	43,000 H. P.
Lock 12—68 feet fall	70,000 H. P.
Lock 14—58 feet fall	65,000 H. P.
Lock 15—40 feet fall	48,000 H. P.
Lock 18—64 feet fall	80,000 H. P.
Lock 19—22 feet fall	12,000 H. P.
Total—312 feet fall	318,000 H. P.

The last mentioned dam will be used as an equalizer of flow, and the power available from it is figured on a different basis.

Etowah Storage Dam: The Army Engineers propose to build a storage dam 150 feet high on the Etowah River at Cartersville, Ga., as reported in House Document No. 253, 63rd Congress, 1st Session, Oct. 16, 1913. If this dam is built and utilized for equalizing the river flow as proposed, it will probably add 50 per cent to the power available between Lock 4 and Wetumpka.

Little River Power: Little River is a tributary of the Coosa River that occupies a high plateau on Lookout Mountain, with a drainage area of 119 square miles above the site of a proposed

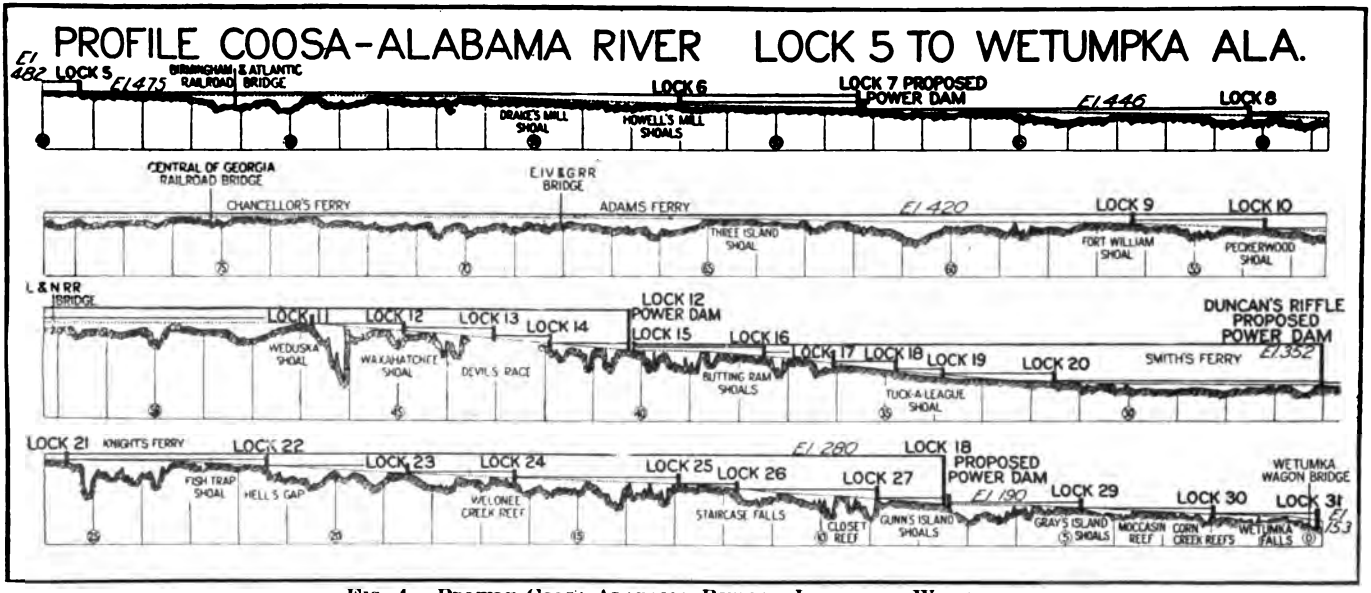

FIG. 4.—PROFILE COOSA-ALABAMA RIVERS—LOCK E TO WETUMPKA.

dam, that is planned for a storage of 110,000 acre feet. From this storage dam a tunnel and pipe line will lead to a lower valley giving a power head of 550 feet. This reservoir full of water with a head of 550 feet, would produce 15,000 continuous horse power, 24 hours per day for a period of six months, or 36,000 H. P. ten hours per day for the same period.

The proposed development, which is in process of construction will therefore utilize the entire run off of Little River, less the evaporation and perculation in the reservoir. 52,000 horse power, 10 hours per day is the estimate of the Alabama Power Company.

Tallapoosa River System.

Cherokee Bluffs: About 10 miles above Tallassee, Alabama, there is an excellent site known as Cherokee Bluffs, where it is proposed to build a dam 180 feet high creating a reservoir that will cover 34,000 acres and will store 50 billion cubic feet or 1,148,000 acre feet, above an average power head of 120 feet. Assuming that this storage will equalize the flow of the river, an average year will give a continuous flow of 5,000 second feet which, with a head of 120 feet, will produce 54,500 continuous H. P. or 130,000 H. P. ten hours per day.

The average flow of the river at this dam site for 1904, the lowest year on record, was about 2,400 second feet which, with a head of 120 feet would produce 26,400 continuous horse-power or 63,400 H. P. ten hours per day.

The dam site and a large part of the storage basin has been purchased by the Alabama Inter-State Power Company that proposes to make this development.

Montgomery Power Co. Plant: This Company has a dam 40 feet high across the Tallapoosa River, three miles above Tallassee, with a water wheel and generator capacity of about 6,000 H. P.

Tallassee Falls Power: The Tallassee Manufacturing Company has a dam at the head of the falls and a head race and penstocks leading to water wheels below the falls, giving a power head of 64 feet. The new power house below the falls is planned for four units of 3,500 H. P. each or a total of 14,000 H. P. All of these units were not installed at first but concrete bases and tail races were constructed for setting them. There are also some wheels at the old plant on the opposite bank of the river. Ordinary low water stages for average year, (not minimum) is estimated at 1,060 second feet. This flow with a head of 64 feet would produce 6,163 continuous horse-power 24 hours per day, or 14,900 horse power ten hours per day.

The power at this plant is used for running a large factory devoted exclusively to the manufacture of cotton duck.

Warrior System.

These water powers are fully described under "Summary of Water Powers," page 372 to page 375, and some excellent views of Locks and Dams, Nos. 1 to 17, showing methods of construction and completed work, are reproduced from photographs kindly furnished by the Government engineers and the Hardaway Contracting Company.

NEW HYDRO-ELECTRIC PLANTS ON SMALL STREAMS.

Jackson Shoals Plant.

Choccolocco Creek, Coosa River drainage in Talladega County. This is one of the electric plants of the Alabama Power Company. It has a fall of 26 feet on single vertical runner turbines, 2,000 H. P. capacity, operating generators 1,500 K. W. capacity. Current is used on lines of the Alabama Power Co. for light and power.

Sylacauga Municipal Plant.

Hatchet Creek, Coosa River drainage, in Coosa County. Concrete dam and canal. 19-foot fall on twin horizontal turbines, 375 H. P. capacity, direct connected generator 200 K. V. A. 60 cycle, 2,300 volts, transmitted at 15,000 volts 16 miles to Sylacauga in Talladega County, for municipal water works power and city lighting system.

Goodwater Municipal Plant.

Hatchet Creek, Coosa River drainage, Coosa County. Single vertical turbine 100 H. P. capacity, belted generator, 3 phase, 60 cycles, 2300 volts. Transmitted 4 miles to town of Goodwater in Coosa County. Day and night system for power and light.

Speigner Power Plant.

Mortar Creek, Coosa River drainage, Elmore County. A long dam creates a pond covering 800 acres of swamp land and gives a head of 35 feet when pond is full. Plant consists of two 530 H. P. twin horizontal turbines and one 75 H. P. horizontal turbine. Two 300 K. W. direct connected generators and one 50 K. W. generator. This plant is used for current to operate pumping station, grist mill, cotton gin and cotton factory for the State Convict Department, and to furnish lights for same.

Centerville Electric Plant.

Schultz Creek, Cahaba River drainage, Bibb County. 11 foot log dam, built in 1849 by John H. Logan, power recently improved by Electric Light Company. Electric current is generated and transmitted for lighting the towns of Centerville and Brent. Mr.

S. D. Logan, of Centerville, estimated the wheel capacity as 175 H. P. He also states that, in the short distance between the foot of this dam and the Cahaba River, Schultz Creek has a fall of 37 feet, which can be cheaply developed for additional power.

Pea River Hydro-Electric Plant.

On Pea River, Choctawhatchee Drainage Basin, in Coffee County, about 4½ miles below Elba. Dam is reinforced concrete, 28 feet high, canal 400 feet long across neck of river bend gives a power head of 31.4 feet on two pairs of Morgan-Smith horizontal twin turbines 1,000 H. P. capacity each, each pair being direct connected to a 600 K. V. A. generator. There is also one pair of horizontal twin turbines 470 H. P. capacity direct connected to a 350 K. V. A. generator. The current is 3 phase, 60 cycle, 2,300 volts. It is stepped up to 33,000 volts and transmitted to Troy and Elba for municipal and commercial power and lights.

The information concerning this plant and the plants on Hatchet Creek and Mortar Creek has been kindly furnished by Prof. Edgar B. Kay.

POWER AT MUSCLE SHOALS ON TENNESSEE RIVER AND POSSIBLE COMBINATIONS WITH POWERS ON TALLAPOOSA RIVER AND LITTLE RIVER.*

The following data is copied from House Document No. 20, 63rd Congress, 2nd Session, May 18, 1914, the same being a statement from the Chief of Engineers, U. S. A., transmitting a report of the Board of Engineers for Rivers and Harbors on Tennessee River between Brown's Island, and the railroad bridge, below the city of Florence, Alabama.

OUTLINE OF BOARD'S PLANS.

Lock and Dam No. 1.—A low concrete dam in back chute of Patton Island channel; lock and dam for navigation purposes only; connected with Lock No. 2 by concrete canal wall.

Lock and Dam No. 2.—A concrete dam across river a short distance above Sweetwater Creek, with a double-lift of locks, as shown on the plans; dam about 3,300 feet long; maximum height, 67 feet; powerhouses as shown in drawings, containing a proposed installation of ten 10,000 horsepower turbines and generators, with two 2,200 horsepower exciter units. Turbines assumed to run with full-open gates when Florence gauge reads 7 feet and over; the head, when Florence gauge reads—0.2 and 10,000 second-feet is flowing in the river, is 64 feet; at a 7-foot Florence gauge, discharge of river 70,000 second-feet, the calculated head is 59.6 feet. The extreme high Florence gauge of 32.5 corresponds to a calculated discharge of 499,000 second-feet, and a calculated head of 45.5 feet. Primary power, at 72 per cent efficiency, is taken at 52,000 horsepower; secondary power at 41,000 horsepower.

Lock and Dam No. 3.—Located below Lock No. 5, Muscle Shoals Canal; single chamber lock, with 35-foot lift; dam about 5,200 feet long, with powerhouse as shown; maximum height of dam, 45 feet; proposed installation, six 10,000 horsepower turbines and generators, with two 2,200 horsepower exciter sets. The head, when discharge is 10,000 second-feet, is 35 feet; when discharge is 70,000 second-feet, is calculated to be 33.8 feet; and at maximum stage, when discharge is 499,000 second-feet, 29.5 feet. Proposed primary power development, 72 per cent efficiency, is taken at 28,000 horsepower and secondary at 27,000 horsepower.

*Now being considered as a site for the Government Nitrate Plant.

Lock and Dam No. 4.—Located near Muscle Shoals Lock No. 2; length of dam about 5,400 feet, and maximum spillway height 37 feet, with movable top 12 feet in height; powerhouse as shown; proposed installation, seven 10,000 horsepower turbines and generators, with two 2,000 horsepower exciter sets; a single lift lock. Head, with 10,000 second feet flow, is 40 feet; at 70,000 second feet flow, is calculated to be 37.7 feet; and at maximum flow of 499,000 second-feet, 29 feet. Proposed primary power development, 72 per cent efficiency, 33,000 horsepower; secondary power, 33,000 horsepower.

The primary power is assumed to be developable at the stage of —0.2 foot on the Florence gauge, at which stage the flow of the river is 10,000 second-feet. During the past 41 years the gauge has fallen below this reading for an aggregate of 228 days, and a maximum in any one period of 32 days. It has been calculated that the storage provided by the three dams can readily take care of this shortage for a maximum period of 32 days without lowering the reservoir more than 1 foot, provided no water is stored during the periods of the day when maximum power is not developed.

The maximum amount of secondary power stated above would be available from a minimum period of 4½ months to a maximum period of 9½ months per year; the average being about 7 months. Ninety per cent of the secondary power would be available for a minimum period of about 6 months to a maximum period of about 11 months per year, and an average of about 8 months per year.

The locks shown in the plans are of the usual type constructed in this district. The dams are assumed to be safe against sliding, if keyed into rock, as shown on the sections. The minimum factor of safety against overturning under conditions of upward pressure at full head at heel and zero at toe, with maximum depth on crest, and allowing for backwater, is 1.5. The reinforcement shown in the upstream edge of dam is an extra precaution, and is not taken into consideration in the above factors of safety. Powerhouses must be equally safe against sliding and overturning as are the dams.

Sheet showing maximum sections of dams give elevations of water surfaces, etc., referred to mean Gulf level.*

Attached hereto are sheets giving quantities required by plans of board and seven tables, which are believed to be self-explanatory.

UNITED STATES ENGINEER OFFICE,
Nashville, Tenn.

*See Plate XIX. E. A. S.

Estimated quantities required to construct according to plans of board.

[Approximate only.]

Classification.	Unit.	Locks, dams and substructures of power houses.			
		No. 1	No. 2	No. 3	No. 4
Lock:					
Cofferdam, about 8 to 10 feet high	Linear feet	1,200	200	1,850	1,550
Excavation, earth and gravel	Cubic yards	9,600	62,000	30,000	.....
Excavation, rock	Cubic yards	8,500	100,000	4,500	5,230
Back fill and grading	Cubic yards	9,500	55,700	.....	.....
Concrete, plain	Cubic yards	18,500	98,800	89,680	65,520
Concrete, reinforced	Cubic yards	.....	450	956	950
Gates, steel	Tons	175	800	372	351
Reinforcing steel	Tons	.....	16	36	36
Lining for culverts, steel	Tons	.....	427	220	215
Estimated cost of valves, operating machinery, and anchorages.	Dollars	19,000	52,000	25,000	25,000
Estimated cost of land and lock houses	Dollars	15,000	25,000	16,500	12,000
Wall connecting Locks 1 and 2:					
Cofferdam, about 8 to 10 feet high	Linear feet	1,400	.....	.....	.....
Excavation, earth and gravel	Cubic yards	181,000	.....	.....	.....
Excavation, rock	Cubic yards	5,800	.....	.....	.....
Back fill	Cubic yards	8,000	.....	.....	.....
Concrete, plain	Cubic yards	37,100	.....	.....	.....
Dam:					
Cofferdam, about 8 to 10 feet high	Linear feet	650	2,800	9,000	11,960
Excavation, earth and gravel	Cubic yards	2,800	124,000	24,800	.....
Excavation, rock	Cubic yards	620	24,000	18,880	30,000
Concrete, plain	Cubic yards	2,050	367,000	291,500	281,850
Reinforcement	Tons	.....	666	680	.....
Steel wire gates, 13 by 31 feet	No	.....	.....	.....	150
Estimated cost of exploration holes and anchorage for reinforcement.	Dollars	.....	6,700	12,100	.....
Substructure of power house:					
Cofferdam, about 8 to 10 feet high	Linear feet	.....	1,125	1,600	1,500
Excavation, rock	Cubic yards	.....	18,580	13,200	14,000
Concrete, plain	Cubic yards	.....	106,160	69,000	68,000
Tail race:					
Cofferdam, about 8 to 10 feet high	Linear feet	.....	800	950	800
Excavation, rock	Cubic yards	.....	48,500	25,200	27,000

TABLE I.—*Number of days on which the river has been below zero on the Florence gauge, period 1872 to 1912.*

Year.	Gauge readings between—								Total.
	—0.8 to —.07	—0.7 to —0.6	—0.6 to —0.5	—0.5 to —0.4	—0.4 to —0.3	—0.3 to —0.2	—0.2 to —0.1	—0.1 to 0	
1872	6	5	2	12	12	10	8	5	60
1873	.....	.....	.....	4	5	6	7	7	29
1876	.....	.....	3	3	3	16	12	5	42
1877	.....	.....	.....	.....	.....	.....	.....	1	1
1878	2	1	2	2	7	6	12	16	48
1879	.....	.....	.....	7	7	3	2	3	22
1894	.....	.....	.....	.....	.....	.....	.....	6	6
1897	.....	.....	1	5	10	13	12	3	44
1898	.....	.....	.....	.....	.....	.....	.....	10	10
1902	.....	.....	.....	.....	.....	5	12	4	21
1903	.....	.....	3	7	12	20	23	9	74
1904	.....	.....	7	4	6	11	14	6	48
1910	.....	.....	.....	.....	.....	.....	.....	10	10
1911	.....	.....	.....	.....	.....	.....	.....	9	9
Total	8	6	18	44	62	90	102	94	424
Days in 41 years below gauge readings	8	14	32	76	138	228	330	424	.....

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TABLE II.—*Number of days each year on which the Florence gauge remained at the various stages shown in the period 1872 to 1912.*

Year.	Gauge reading.													
	Below 0.	0 to 1.	1 to 2.	2 to 3.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to 12.	12 to 13.
1872	60	76	61	34	34	27	25	15	5	6	6	7	3	1
1873	29	59	39	7	45	43	29	38	14	10	14	8	3	4
1874	.....	69	55	48	25	15	23	21	21	13	14	8	5	6
1875	.....	25	30	52	47	31	29	31	23	16	6	9	7	3
1876	42	82	16	21	16	32	39	15	15	14	7	13	15	15
1877	1	69	73	45	42	22	27	19	7	11	9	12	1	2
1878	48	70	48	18	24	29	29	25	23	24	11	6	6	3
1879	22	87	46	36	32	20	31	20	19	13	6	3	1	5
1880	.....	64	34	23	22	23	27	25	13	10	9	11	9	6
1881	.....	87	40	31	38	27	24	28	16	12	10	11	8	9
1882	.....	.....	67	80	37	28	23	21	12	12	9	4	9	3
1883	.....	47	82	53	34	26	10	12	20	13	15	6	7	5
1884	.....	95	34	27	33	23	19	13	10	11	10	13	9	10
1885	.....	30	55	42	59	52	36	22	15	9	8	9	8	3
1886	.....	53	24	41	19	29	43	29	27	36	17	12	8	2
1887	.....	77	70	51	30	43	14	13	10	2	3	7	8	14
1888	.....	11	54	57	39	49	42	29	16	11	12	10	6	8
1889	.....	.....	42	67	56	58	39	26	26	17	12	10	2	.....
1890	.....	.....	20	101	60	30	23	27	16	22	10	12	15	1
1891	.....	.....	64	75	51	28	12	18	12	19	15	11	4	10
1892	.....	11	50	49	38	45	38	30	24	25	14	9	3	2
1893	.....	.....	95	86	32	32	18	18	23	10	9	3	1	6
1894	6	69	100	51	28	20	20	26	20	9	1	3	2	.....
1895	.....	95	57	31	24	35	30	26	14	12	12	8	2	5
1896	.....	81	65	49	60	25	16	10	9	11	3	3	14	3
1897	44	52	54	50	23	26	11	20	13	11	7	7	4	2
1898	.....	21	58	93	64	36	20	12	14	8	11	7	5	10
1899	10	125	30	29	14	19	18	28	7	8	10	4	5	7
1900	.....	49	55	57	40	23	21	25	23	17	16	7	12	3
1901	.....	5	66	44	47	34	35	24	20	12	12	7	9	10
1902	21	69	60	38	13	31	30	22	16	5	12	4	2	3
1903	74	40	31	51	24	19	19	11	9	12	5	3	4	5
1904	48	102	66	45	32	19	23	5	5	10	1	1	2	.....
1905	.....	58	51	36	48	44	33	27	17	11	11	7	6	4
1906	.....	.....	19	39	64	54	46	52	24	18	13	8	8	2
1907	.....	27	58	37	44	63	37	27	15	19	11	5	8	5
1908	7	62	56	31	21	41	19	31	30	22	15	3	10	7
1909	.....	80	35	17	23	14	27	27	32	28	13	9	13	9
1910	10	54	66	32	49	47	27	22	23	12	14	6	3	.....
1911	9	69	61	45	44	26	24	16	11	8	6	1	4	3
1912	.....	62	24	49	43	37	23	16	17	10	11	16	10	7
Total	431	2,132	2,161	1,868	1,518	1,325	1,079	922	686	559	410	308	261	213
Average	10.5	52.0	52.7	45.5	37.0	32.3	26.3	22.5	16.7	13.6	10.0	7.5	6.4	5.2
Below	10.5	62.5	115.2	160.7	197.7	230.0	256.3	278.8	295.5	309.1	319.1	326.6	333.0	338.2

TABLE II.—*Number of days each year on which the Florence gauge remained at the various stages shown in the period 1872 to 1912.*

Year.	Gauge reading.												
	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	21 to 22.	22 to 23.	23 to 24.	24 to 25.	Above 25.
1872	1	.....	3	2	.....	.....	.....	.....	.....	.....	.....	.....	.....
1873	1	2	1	1	1	2	3	4	3	5	.....	.....	.....
1874	3	2	2	4	3	1	3	6	1	4	4	1	3
1875	2	4	7	5	3	4	3	3	5	2	4	3	11
1876	11	5	2	1	.....	2	3	.....	.....	.....	.....	.....	.....
1877	5	3	9	.....	6	.....	2	.....	.....	.....	.....	.....	.....
1878	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1879	5	7	2	.....	1	.....	4	3	2	.....	.....	.....	.....
1880	4	9	3	.....	5	2	1	2	1	3	3	2	.....
1881	13	3	4	2	2	.....	.....	.....	.....	.....	.....	.....	.....
1882	5	5	6	4	4	5	7	3	4	1	3	1	12
1883	10	3	2	4	3	4	2	1	.....	.....	1	.....	.....
1884	7	7	3	3	7	1	4	3	7	5	5	5	2
1885	3	4	1	4	5	.....	.....	.....	.....	.....	.....	.....	.....
1886	1	3	3	.....	.....	1	.....	1	1	2	2	3	3
1887	5	5	3	2	3	.....	.....	.....	.....	.....	.....	.....	.....
1888	5	1	3	5	3	1	1	3	.....	.....	.....	.....	.....
1889	.....	1	1	.....	3	2	3	.....	.....	.....	.....	.....	.....
1890	3	5	5	2	3	.....	.....	1	.....	4	5	.....	.....
1891	3	3	5	3	2	3	3	4	10	5	.....	.....	.....
1892	2	3	5	1	2	3	2	1	5	1	2	1	.....
1893	7	6	2	4	3	1	1	3	.....	.....	.....	.....	.....
1894	3	3	2	.....	2	.....	.....	.....	.....	.....	.....	.....	.....
1895	2	5	3	2	2	.....	.....	.....	.....	.....	.....	.....	.....
1896	3	.....	2	1	2	1	3	.....	.....	.....	.....	.....	.....
1897	6	3	3	5	6	1	2	2	.....	3	2	1	7
1898	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1899	10	11	4	1	3	2	3	5	1	3	3	4	1
1900	2	5	1	.....	1	1	2	.....	.....	.....	.....	.....	.....
1901	7	4	14	10	1	3	1	.....	.....	.....	.....	.....	.....
1902	1	4	4	3	7	3	4	5	3	.....	.....	.....	.....
1903	7	7	3	16	9	6	.....	.....	.....	.....	.....	.....	.....
1904	2	2	.....	1	2	.....	.....	.....	.....	.....	.....	.....	.....
1905	2	4	3	3	.....	.....	.....	.....	.....	.....	.....	.....	.....
1906	3	2	6	2	.....	.....	.....	.....	.....	.....	.....	.....	.....
1907	3	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1908	4	2	2	1	2	.....	.....	.....	.....	.....	.....	.....	.....
1909	5	16	6	.....	2	5	4	.....	.....	.....	.....	.....	.....
1910	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1911	5	5	7	3	3	3	2	1	3	1	.....	.....	.....
1912	3	4	6	9	7	4	3	.....	.....	.....	.....	.....	.....
Total	181	169	148	119	118	61	66	56	46	39	34	21	44
Average	4.4	4.1	3.6	2.9	2.9	1.5	1.6	1.4	1.1	1.0	0.8	0.5	1.1
Below	342.6	346.7	350.3	353.2	356.1	357.6	359.2	360.6	361.7	362.7	363.5	364.0	365.1

TABLE III.—*Power data for Dam No. 2.*

NOTES.

Proposed installation provides for ten 10,000-horsepower turbines and two 2,200-horsepower "exciter" turbines with generators.

Turbines are to run with full-open gates when Florence gauge reads 7 and over. At 7 stage, with full gates, turbines will be using 19,800 second-feet; at —0.2 the discharge of river is 10,000 second-feet. This amount is considered to be "primary" power; all above gives "secondary."

Elevation of crest of dam is 465 above sea level; of zero of Florence gauge is 396.77; of zero of gauge below power house is 401.8.

Column No. 7 gives power developed by turbines measured on turbine shafts, which is at maximum of 104,400 when Florence gauge reads between 1.2 and 7. (Small additional amount of power could be developed between these stages if gates of turbines were run full open.) Efficiency of turbines is taken as 80 per cent.

Column No. 8 gives electrical horsepowers at switchboard of power house, taken as 90 per cent of turbine-shaft power.

1	2	3	4	5	6	7	8	9
Reading on Florence gauge.	Reading on gauge below power house.	Total discharge of river, in second-feet.	Depth on crest of dam with no turbines running—Feet.	Depth on crest of dam with all turbines running—Feet.	Available head with all turbines running—Feet.	Turbine-shaft power, in horsepowers.	Electric horsepowers at switchboard of power house (dropping fractions of 1,000 horsepower).	Secondary power available after deducting 52,000 horsepower primary (minus indicates shortage in primary).
—0.76	—0.76	7,000	0.8	.....	64.5	41,040	37,000	—15,000
— .70	— .70	7,400	.8	.....	64.4	43,380	39,000	—13,000
— .60	— .60	7,850	.9	.....	64.3	45,860	41,000	— 9,000
— .50	— .50	8,350	.9	.....	64.2	48,740	43,000	— 7,000
— .40	— .40	8,850	.9	.....	64.1	51,580	46,000	— 4,000
— .30	— .30	9,475	1.0	.....	64.0	55,100	49,000	— 1,000
— .20	— .20	10,000	1.0	.....	63.9	58,100	52,000	.....
.....	.....	11,000	1.1	.....	63.7	63,800	57,000	5,000
1.00	.90	17,000	1.5	.....	62.8	98,100	88,000	36,000
1.20	1.10	18,375	1.6	.....	62.5	104,400	93,000	41,000
2.00	1.80	24,000	1.8	0.2	62.1	104,400	93,000	41,000
3.00	2.80	31,500	2.1	1.0	61.9	104,400	93,000	41,000
4.00	3.80	41,500	2.4	1.6	61.5	104,400	93,000	41,000
5.00	4.70	49,500	2.7	2.0	61.0	104,400	93,000	41,000
6.00	5.70	59,000	3.0	2.3	60.3	104,400	93,000	41,000
7.00	6.70	70,000	3.4	2.6	59.6	104,400	93,000	41,000
8.00	7.60	81,000	3.8	3.0	59.1	103,500	93,000	41,000
9.00	8.60	93,000	4.2	3.4	58.5	101,500	91,000	39,000
10.00	9.50	105,000	4.5	3.8	58.0	100,100	90,000	38,000
11.00	10.50	118,000	4.9	4.3	57.5	98,900	89,000	37,000
12.00	11.40	131,000	5.2	4.7	57.0	97,500	87,000	35,000
13.00	12.30	144,000	5.5	5.0	56.4	96,100	86,000	34,000
14.00	13.20	158,500	5.9	5.3	55.8	94,600	84,000	32,000
15.00	14.10	174,000	6.2	5.7	55.3	93,300	83,000	31,000
16.00	15.00	190,000	6.6	6.1	54.8	91,900	82,000	30,000
17.00	15.90	204,000	6.9	6.4	54.3	90,600	81,000	29,000
18.00	16.80	218,000	7.2	6.8	53.7	89,200	80,000	28,000
19.00	17.70	236,000	7.5	7.1	53.1	87,800	79,000	27,000
20.00	18.60	252,000	7.8	7.4	52.5	86,500	77,000	25,000
21.00	19.50	270,000	8.2	7.7	51.0	85,100	76,000	24,000
22.00	20.40	287,000	8.5	8.1	51.4	83,700	75,000	23,000
23.00	21.30	305,000	8.8	8.4	50.8	81,300	73,000	21,000
24.00	22.20	325,000	9.2	8.8	50.3	80,900	72,000	20,000
25.00	23.10	345,000	9.5	9.2	49.8	79,750	71,000	19,000
26.00	24.00	365,000	9.9	9.5	49.2	78,400	70,000	18,000
27.00	24.90	385,000	10.2	9.9	48.7	77,000	69,000	17,000
28.00	25.80	405,000	10.5	10.2	48.1	75,600	68,000	16,000
29.00	26.70	423,000	10.8	10.5	47.5	74,200	66,000	14,000
30.00	27.60	444,000	11.2	10.8	46.9	72,900	65,000	13,000
31.00	28.50	465,000	11.5	11.2	46.4	71,500	64,000	12,000
32.50	30.00	499,000	12.1	11.8	45.5	69,600	62,000	10,000

TABLE IV.—*Power data for Dam No. 3.*

Proposed installation provides for six 10,000 horsepower turbines and two 2,200 horsepower "exciter" turbines, with generators.

Turbines are to run with full-open gates when Florence gauge reads 7 and over At 7 stage with full gates., turbines will be using 20,300 second-feeet; at —0.2 the discharge of river is 10,000 second-feet. This amount is considered to give "primary" power; all above gives "secondary."

Elevation of crest of dam is 500 above sea level, and of zero of gauge below powerhouse is 465. Readings on this gauge give height of water at tailrace of power house No. 3 above crest of Dam No. 2, and combine therefore the effect of backwater from Dam No. 2 with the natural slope of the river.

Data in this table are based on assumption that turbines at Dam No. 2 are running at full capacity.

Column No. 7 gives power developed by turbines measured on turbine shafts, which is at maximum of 62,200 when Florence gauge reads between 1.42 and 7. Efficiency of turbines is taken as 80 per cent.

Column No. 8 gives electrical horsepowers at switchboard of power house, taken as 90 per cent of turbine shaft power.

1	2	3	4	5	6	7	8	9
Reading on Florence gauge.	Reading on gauge below power house.	Total discharge of river, in second-feet.	Depth on crest of dam with no turbines running—Feet.	Depth on crest of dam with all turbines running—Feet.	Available head with all turbines running—Feet.	Turbine shaft power, in horsepowers.	Electric horsepowers at switchboard of power house (dropping fractions of 1,000 horsepower).	Secondary power available after deducting 28,000 horsepower primary (minus indicates abortage in primary).
—0.76	.....	7,000	0.56	.....	35.0	22,272	20,000	—8,000
— .70	.....	7,400	.59	.....	35.0	23,540	21,000	—7,000
— .60	.....	7,850	.61	.....	35.0	24,970	22,000	—6,000
— .50	.....	8,350	.63	.....	35.0	26,570	23,000	—5,000
— .40	.....	8,850	.65	.....	35.0	28,150	25,000	—3,000
— .30	.....	9,475	.67	.....	35.0	30,150	27,000	—1,000
— .20	.....	10,000	.70	.....	35.0	31,818	28,000	.....
.....	.....	11,000	.74	.....	35.0	35,000	31,000	3,000
1.00	0.1	17,000	1.01	.....	34.9	53,960	48,000	20,000
1.42	.2	19,600	1.14	.....	34.8	62,200	55,000	27,000
2.00	.4	24,000	1.22	0.1	34.7	62,200	55,000	27,000
3.00	1.2	31,500	1.42	.7	34.5	62,200	55,000	27,000
4.00	1.7	41,500	1.62	1.1	34.4	62,200	55,000	27,000
5.00	2.2	49,500	1.82	1.4	34.2	62,200	55,000	27,000
6.00	2.6	59,000	2.03	1.6	34.0	62,200	55,000	27,000
7.00	3.0	70,000	2.20	1.8	33.8	62,200	55,000	27,000
8.00	3.4	81,000	2.60	2.1	33.7	61,900	55,000	27,000
9.00	3.9	93,000	2.80	2.4	33.5	61,400	55,000	27,000
10.00	4.3	105,000	3.00	2.6	33.3	60,850	54,000	26,000
11.00	4.7	118,000	3.30	2.8	33.1	60,300	54,000	26,000
12.00	5.2	131,000	3.50	3.1	32.9	59,800	53,000	25,000
13.00	5.5	144,000	3.80	3.3	32.8	59,400	53,000	25,000
14.00	6.0	158,500	4.00	3.6	32.6	58,950	53,000	25,000
15.00	6.4	174,000	4.20	3.9	32.5	58,500	52,000	24,000
16.00	6.9	190,000	4.50	4.2	32.3	58,100	52,000	24,000
17.00	7.2	204,000	4.70	4.4	32.2	57,700	51,000	23,000
18.00	7.6	218,000	4.90	4.6	32.0	57,300	51,000	23,000
19.00	8.0	236,000	5.20	4.8	31.8	56,800	51,000	23,000
20.00	8.4	252,000	5.40	5.0	31.6	56,300	50,000	22,000
21.00	8.8	270,000	5.70	5.3	31.5	55,900	50,000	22,000
22.00	9.2	287,000	5.90	5.5	31.3	55,450	49,000	21,000
23.00	9.6	305,000	6.10	5.7	31.1	54,900	49,000	21,000
24.00	10.1	325,000	6.30	6.0	30.9	54,400	48,000	20,000
25.00	10.4	345,000	6.50	6.2	30.8	53,900	48,000	20,000
26.00	10.9	365,000	6.70	6.4	30.5	53,400	48,000	20,000
27.00	11.2	385,000	6.90	6.6	30.4	52,900	47,000	19,000
28.00	11.6	405,000	7.10	6.8	30.2	52,500	47,000	19,000
29.00	12.1	423,000	7.30	7.1	30.0	52,200	46,000	18,000
30.00	12.4	444,000	7.50	7.3	29.9	51,800	46,000	18,000
31.00	12.9	465,000	7.80	7.6	29.7	51,200	46,000	18,000
32.50	13.5	499,000	8.20	8.0	29.5	50,750	45,000	17,000

TABLE V.—*Power data for Dam No. 4.*

NOTES.

Proposed installation provides for seven 10,000-horsepower turbines and two 2,000-horsepower "exciter" turbines, with generators.

Turbines are to run with full-open gates when the Florence gauge reads 7 or over. At 7 stage, with full-open gates, turbines will be using 21,510 second-feet; at —0.2 stage the discharge of the river is 10,000 second-feet. This amount is considered to give "primary" power, and all above gives "secondary" power.

Elevation of the upper pool is 540 and is kept constant by means of movable gates on dam; elevation of the zero of the gauge below power house is 500. Readings on this gauge give height of water at tail race of power house No. 4 above crest of Dam No. 3, and combine, therefore, the effect of backwater from Dam No. 3 with the natural slope of river.

Data in this table are based on the assumption that turbines at Dam No. 2 are running at full capacity.

Column No. 5 gives power developed by turbines, measured on turbine shafts, which is at maximum of 74,000 horsepower when the Florence gauge reads between 1 and 7. Efficiency of turbines taken at 80 per cent.

Column No. 6 gives electrical horsepower at switchboard of power house (dropping fractions of 1,000 horsepower). Efficiency of generators taken at 90 per cent. (Efficiency of turbo-generators, 72 per cent.)

1	2	3	4	5	6	7
Reading on Florence gauge.	Reading on gauge below power house.	Total discharge of river, in second-feet.	Available head with all turbines running—Feet.	Turbine shaft power, in horsepower.	Electric horsepower at switchboard of power house (dropping fractions of 1,000 horsepower).	Secondary power available after deducting 33,000 horsepower primary (minus indicates shortage in primary).
—0.76	.....	7,000	40.0	25,454	23,000	—10,000
—0.70	.....	7,400	40.0	26,910	24,000	— 9,000
—0.60	.....	7,850	40.0	28,540	25,000	— 8,000
—0.50	.....	8,350	40.0	30,360	27,000	— 6,000
—0.40	.....	8,850	40.0	32,190	29,000	— 4,000
—0.30	.....	9,475	40.0	34,450	31,000	— 2,000
—0.20	.....	10,000	40.0	36,360	33,000	.....
.....	.....	11,000	40.0	40,000	36,000	3,000
1.00	.....	17,000	40.0	61,820	55,000	22,000
1.50	.....	20,300	40.0	73,820	66,000	33,000
2.00	0.3	24,000	39.7	74,000	66,000	33,000
3.00	0.8	31,500	39.2	74,000	66,000	33,000
4.00	1.3	41,500	38.7	74,000	66,000	33,000
5.00	1.7	49,500	38.3	74,000	66,000	33,000
6.00	2.0	59,000	38.0	74,000	66,000	33,000
7.00	2.3	70,000	37.7	74,000	66,000	33,000
8.00	2.7	81,000	37.3	72,850	65,000	32,000
9.00	3.1	93,000	36.9	71,650	64,000	31,000
10.00	3.4	105,000	36.6	70,700	63,000	30,000
11.00	3.7	118,000	36.3	69,900	63,000	30,000
12.00	4.1	131,000	35.9	68,750	62,000	29,000
13.00	4.5	144,000	35.5	67,650	61,000	28,000
14.00	4.8	158,000	35.2	66,750	60,000	27,000
15.00	5.2	174,000	34.8	65,650	59,000	26,000
16.00	5.6	190,000	34.4	64,500	58,000	25,000
17.00	5.9	204,000	34.1	63,600	57,000	24,000
18.00	6.2	218,000	33.8	62,800	56,000	23,000
19.00	6.5	236,000	33.5	61,950	56,000	23,000
20.00	6.8	252,000	33.2	61,100	55,000	22,000
21.00	7.2	270,000	32.8	60,100	54,000	21,000
22.00	7.5	287,000	32.5	59,200	53,000	20,000
23.00	7.8	305,000	32.2	58,400	52,000	19,000
24.00	8.2	325,000	31.8	57,400	51,000	18,000
25.00	8.5	345,000	31.5	56,500	51,000	18,000
26.00	8.8	365,000	31.2	55,700	50,000	17,000
27.00	9.1	385,000	30.9	54,900	49,000	16,000
28.00	9.4	405,000	30.6	54,100	49,000	16,000
29.00	9.8	423,000	30.2	53,100	48,000	15,000
30.00	10.1	444,000	29.9	52,200	47,000	14,000
31.00	10.5	465,000	29.5	51,200	46,000	13,000
32.50	11.0	499,000	29.0	49,900	45,000	12,000

TABLE VI.—*Shortage in primary power in different low-water years.*

NOTES.

(1) If thought necessary, steam auxiliary plant can later be provided for 23,000 horsepower, and this will tide over all short years, except abnormal years like 1872 and 1878. But it is believed that the shortage can be made up in the manner explained in notes following.

(2) To show how shortage of primary power in exceptional low-water years can be made up 1872 is taken for illustration. Assume that peak load of 113,000 horsepower is required for only 8 hours per day. To make up shortage for this period draw on reservoirs formed by dams. There was a shortage from October 10 to November 10 in 1872 for 32 days, as follows: 2,600 to 3,000 second-feet for 6 days; 2,150 to 2,600 second-feet for 5 days; 1,650 to 2,150 second-feet for 2 days; 1,150 to 1,650 second-feet for 6 days; 525 to 1,150 second-feet for 9 days; 0 to 525 second-feet for 4 days. Combined area of the three reservoirs is about 40,000 acres. If stored water is used for the 8-hour period to make up shortage, and no water is stored in 16 hours of lower power, then in the 32 days given the reservoirs would have been lowered about 0.8 to 0.9 foot.

(3) But a better plan would be to draw on the low-water flow of 7,000 second-feet to fully or partially restore height in reservoirs during slack hours. Thus if 3,000 second-feet (extreme case) was taken out for 8 hours, reservoirs could be refilled in the other 16 hours by allowing only 5,500 second-feet to pass.

(4) A combination of plans (2) and (3) will probably be better from the navigation standpoint.

[Total primary power at Dams 2, 3, and 4 is 113,000 horsepower.]

Year.	Number of days each year shortage was between figures given.						
	33,000 to 29,000 horsepower	29,000 to 23,000 horsepower	23,000 to 18,000 horsepower	18,000 to 11,000 horsepower	11,000 to 4,000 horsepower	4,000 to 0 horsepower	Full power
1872	6	5	2	12	12	10	319
1873	.....	.....	.....	4	5	6	350
1876	.....	.....	3	3	3	16	341
1877	.....	.....	.....	.....	.....	.....	365
1878	22	1	2	2	7	6	345
1879	.....	.....	.....	7	7	3	348
1894	.....	.....	.....	.....	.....	.....	365
1897	.....	.....	1	5	10	13	336
1898	.....	.....	.....	.....	.....	.....	365
1902	.....	.....	.....	.....	.....	5	360
1903	.....	.....	3	7	12	20	323
1904	.....	.....	7	4	6	11	338
Average for 12 low-water years....	0.67	0.50	1.50	3.67	5.4	7.5	346
Average for 41 years.....	0.20	0.15	0.44	1.07	1.5	2.2	359.5

TABLE VII.—*Secondary power and time available.*

Note.—Proposed installation will give at Dams Nos. 2, 3, and 4 an aggregate secondary power of 101,000 horsepower when Florence gauge is between readings 1.5 and 8. Below 1.5 reading secondary power drops to zero from lack of discharge and above 8 drops off, due to reduction of head, until at maximum reading of 82.5 feet it is 39,000 horsepower.

Year.	Number of months each year on which the secondary power was at or above the figure stated.									
	101,000	90,000	80,000	70,000	60,000	50,000	40,000	30,000	20,000	10,000
1872	5.7	6.8	7.4	7.8	8.2	8.6	9.0	9.4	9.8	10.2
1873	6.5	8.0	8.6	9.1	9.7	10.0	10.3	10.6	10.9	11.2
1874	6.0	7.9	8.3	9.7	10.3	10.7	11.0	11.4	11.8	12.0
1875	7.6	9.1	9.8	10.4	10.9	11.4	11.7	11.9	12.0	.....
1876	4.9	6.6	7.3	8.4	8.7	9.1	9.5	9.9	10.3	10.6
1877	6.6	8.2	9.4	10.0	10.3	10.6	11.0	11.4	11.7	12.0
1878	5.7	7.7	8.2	8.5	8.8	9.1	9.4	9.7	10.0	10.4
1879	6.0	7.3	8.3	9.0	9.6	10.0	10.4	10.8	11.1	11.4
1880	5.8	7.8	9.4	9.9	10.3	10.7	11.0	11.4	11.7	12.0
1881	6.1	7.7	9.0	9.5	9.9	10.3	10.7	11.2	11.6	12.0
1882	7.8	9.4	10.5	11.1	11.4	11.7	12.0	.....	.....	.....
1883	6.5	8.5	10.0	10.7	11.0	11.3	11.5	11.7	11.9	12.0
1884	4.7	6.4	7.6	8.6	9.6	10.3	10.7	11.2	11.6	12.0
1885	8.4	10.0	10.9	11.3	11.4	11.5	11.6	11.8	11.9	12.0
1886	6.6	9.3	9.8	10.1	10.5	11.0	11.4	11.6	11.8	12.0
1887	6.5	7.7	9.2	9.9	10.2	10.5	10.8	11.2	11.5	12.0
1888	8.6	10.3	11.3	11.7	11.8	11.8	11.8	11.9	11.9	12.0
1889	9.6	11.3	11.7	12.0	.....	.....	.....	.....	.....	.....
1890	8.8	11.0	11.6	11.8	11.9	12.0	.....	.....	.....	.....
1891	7.5	9.6	10.8	11.3	12.0	.....	.....	.....	.....	.....
1892	8.2	10.3	11.1	11.4	11.7	11.8	11.9	11.9	11.9	12.0
1893	8.4	10.0	11.5	11.8	12.0	.....	.....	.....	.....	.....
1894	7.0	8.3	9.4	9.8	10.2	10.5	10.8	11.1	11.5	11.8
1895	6.2	7.8	8.8	9.4	9.8	10.2	10.6	11.1	11.5	12.0
1896	6.6	8.1	9.1	9.7	10.1	10.5	10.9	11.3	11.6	12.0
1897	5.7	7.1	8.0	8.7	9.1	9.5	9.8	10.0	10.3	10.5
1898	8.7	10.2	11.2	11.4	11.5	11.6	11.7	11.8	11.9	12.0
1899	4.3	5.5	6.8	7.7	8.6	9.4	10.0	10.6	11.2	11.7
1900	7.2	9.4	10.4	10.7	10.9	11.1	11.3	11.5	11.7	12.0
1901	7.8	9.7	11.4	11.8	11.9	11.9	11.9	11.9	12.0	.....
1902	6.0	7.6	8.5	9.6	10.2	10.4	10.6	10.8	11.1	11.3
1903	4.9	6.1	7.2	8.4	8.6	8.8	9.0	9.2	9.4	9.6
1904	5.4	6.4	7.0	7.6	8.1	8.6	9.1	9.6	10.0	10.4
1905	7.6	9.2	10.0	10.4	10.6	10.8	11.1	11.4	11.7	12.0
1906	9.5	11.2	11.9	12.0	.....	.....	.....	.....	.....	.....
1907	8.3	10.2	11.1	11.2	11.3	11.4	11.5	11.7	11.8	12.0
1908	6.7	8.3	9.3	9.9	10.2	10.5	10.8	11.2	11.5	11.8
1909	5.2	7.6	9.1	9.8	10.0	10.3	10.7	11.2	11.6	12.0
1910	7.6	9.2	9.8	10.0	10.3	10.5	10.8	11.1	11.4	11.8
1911	6.5	7.7	8.8	9.7	10.2	10.5	10.8	11.1	11.4	11.8
1912	6.5	8.2	9.2	10.3	10.6	10.8	11.1	11.4	11.7	12.0
Average, year	6.9	8.5	9.5	10.0	10.4	10.7	10.9	11.2	11.4	11.7

TABLE VIII.—*Potential power at Dams, 2, 3, and 4 if entire flow of river could be utilized.*

NOTES.

(1) This table is of little practical value, but is included to comply with instructions.
(2) The table gives "potential power" of water falling over the dams. Heads at different stages may be taken from Tables III, IV, and V.
(3) Maximum flow of river, 499,000 second-feet at 32.5-foot stage; minimum, 7,000 second-feet at —0.76-foot stage.
(4) Water falling over a single dam at site of No. 2, with crest constant at 540, gives potential power equal to 6,786,000 horsepower.

Reading, Florence gauge.	Theoretical horsepower.			
	Dam No. 2	Dam No. 3	Dam No. 4	Total
—0.76	51,305	27,840	31,820	110,965
— .70	54,220	29,480	33,640	117,290
— .60	57,560	31,220	35,680	124,460
— .50	60,920	33,210	37,950	132,080
— .40	64,470	35,190	40,240	139,900
— .30	68,910	37,690	43,060	149,660
— .20	72,610	39,770	45,450	157,830
— .00	79,750	43,750	50,000	173,500
1.00	121,320	67,450	77,280	266,050
2.00	168,320	94,900	119,100	382,320
3.00	218,000	124,200	150,840	493,040
4.00	275,680	159,200	200,750	635,630
5.00	331,750	194,000	236,950	762,700
6.00	388,850	230,600	280,300	899,750
7.00	453,450	272,850	330,000	1,056,300
8.00	517,300	314,800	369,100	1,201,200
9.00	582,300	360,400	429,000	1,371,700
10.00	646,700	405,700	480,400	1,532,800
20.00	1,291,500	919,250	1,045,700	3,256,450
31.00	1,860,100	1,543,000	1,714,600	5,117,700
32.50	1,955,500	1,672,800	1,808,500	5,436,800

RELATION OF THE MUSCLE SHOALS PROJECT WITH OTHER PROPOSED ALABAMA PROJECTS.

Tallapoosa system.—The final and logical treatment of the entire power situation will doubtless result in the connection of the proposed plants on the Tallapoosa River with the Muscle Shoals project. This combination more than doubles the primary power which can be obtained from Muscle Shoals alone, and creates a power situation which is believed to be unequalled east of the Mississippi River. At Cherokee Bluffs we will build a dam 180 feet high, creating a storage reservoir covering 34,000 acres. The head at this dam will vary from 146 feet to 93 feet, there being 53 feet available storage, which will amount to 50,000,000,000 cubic feet, making this one of the largest storage reservoirs in the country. The area of the watershed above this dam is 3,000 square miles.

Diamond-drill borings have been taken at the dam site, proving that foundations are satisfactory. Construction materials are available near the site, sand being found in the river and creek beds in sufficient quantity, and there is a quarry site directly at the dam site.

The reservoir lands have been surveyed and the contour plans for a large part of the area have been prepared. The company now owns about one-tenth of the land required for reservoir purposes and has options on one-third of the remainder.

The dam will contain 240,000 cubic yards of concrete and the original estimate of the cost of the development, exclusive of transmission lines and based on an assumed initial installation of 115,000 horsepower, is $5,000,000.

The great value of the Cherokee project to the Muscle Shoals project lies in the fact that there is little storage in the reservoirs formed by the proposed dams at Muscle Shoals, and to obtain the greatest utilization of the River flow it will be necessary to run the Muscle Shoals plants constantly. By connection to the Cherokee project, we can carry the base load on the Muscle Shoals plant and carry the peaks on Cherokee plant. Furthermore, by joining these two projects together we can operate the Cherokee project under an abnormal load during the dry months and shut it down completely during the wet months, and at such times the reservoir will be refilling. In other words, the Cherokee project will be a standby plant for the Muscle Shoals plant.

Other plants on the Tallapoosa River.—Seven and one-half miles below Cherokee Bluffs is the dam of the Montgomery Light & Water Power Co., where the head of this dam is 40-feet; 3.3 miles below this is the dam of the Tallassee Falls Co., where the head is 60 feet. The total available head between the tail water of the Cherokee Bluffs project and the tail water of the Tallassee Falls plant is 148 feet, and to obtain this it will be necessary to reconstruct the Tallassee Falls and Montgomery Light & Water Power dam sites. It is clear, however, that the draft on the Cherokee reservoir can be used at these two sites to the advantage of Muscle Shoals project.

Cherokee Bluffs is 180 miles from Muscle Shoals, and Birmingham is approximately midway between the two sites.

From the diagram on sheet A-3464 it will be seen that at times the Tallapoosa system will be producing 189,000 horsepower. Assuming that the bulk of this power will be used by industries at Muscle Shoals, there will be required several double-circuit transmission lines connecting these two systems.

The possibilities of this combination are summarized as follows:

The primary continuous power at Muscle Shoals is 89,000 horsepower, based upon the least flow for any day, and 111,000 horsepower, based upon the lowest mean monthly flow. For combination it is 313,000 horsepower. On basis of 60 per cent power produced

primarily and 40 per cent secondarily, the total commercial output will be 522,000 horsepower, 24-hour, 80 per cent efficiency.

The cost of developing the three plants on the Tallapoosa is roughly estimated at $12,000,000. The cost of connecting these plants with the Muscle Shoals plant by transmission lines is $4,000,000, total being $16,000,000, or $71.40 per horsepower for the increased primary power obtained.

Little River project.—The proposed Little River project is 120 miles from Muscle Shoals. It is a storage project and within the Coosa watershed. The reservoir will cover 2,800 acres and the storage will be 4,800,000,000 cubic feet. The area of the watershed is 119 square miles, and as a stand-by of Muscle Shoals project and the Coosa River project it will be of value. The working head varies from 585 feet to 515 feet. Diagrams A-3536, A-3537 show the amount of power available at Little River in connection with the Muscle Shoals-Tallapoosa system.

The cost of Little River project, exclusive of transmission lines, has been estimated at $4,000,000. The company has acquired the reservoir lands and the riparian rights from the Electric Bond & Share Co. The project, while not comparing favorably in cost per horsepower with the other developments, possesses the value of being small, and thus requires less capital for its development than will be required by other projects now being proposed in the State.

The following tables show the power available at Muscle Shoals with Cherokee Bluffs as auxiliary when needed, assuming a total of 450,000, 400,000, 350,000, and 300,000, 24-hour, 80 per cent efficiency horsepower, respectively, when river flow will permit. Cherokee Bluffs was only used when the required power could not be obtained at Muscle Shoals. Installations were assumed as large enough to furnish the required power, the storage available at Cherokee Bluffs being used when not exhausted.

The period of time covered is from September, 1897, to December, 1912, inclusive, this being the time of record for Tallapoosa River flow.

The second and third columns in the tables show the number of million horsepower hours obtained from Muscle Shoals and Cherokee Bluffs, respectively, and the fourth column is a total of the second and third. The fifth column shows the total continuous power in million horsepower-hours on the basis of the lowest half month. The sixth column shows the percentage of the total power which would be continuous. The seventh shows the number of months that 450,000 horsepower, etc., could be obtained. In each table the data is stated for each year, with a summary for the entire period, and also one for the entire period, omitting the year, 1904.

450,000 HORSEPOWER.

	Muscle Shoals.	Cherokee Bluffs.	Total.	Total continuous power.	Per cent continuous of total.	Number of months total horsepower is possible.
	Million H. P. H.	Million H. P. H.	Million H. P. H.	Million H. P. H.		
1897 Sept. to Dec., inclusive	580	176	756	390	51.7	½
1898 Full year	3,499	168	3,667	2,225	60.7	10
1899 Full year	2,854	227	3,081	1,330	43.2	7½
1900 Full year	3,388	290	3,678	2,600	70.7	9
1901 Full year	3,505	300	3,805	2,300	60.5	11
1902 Full year	2,954	224	3,178	1,515	47.7	7½
1903 Full year	2,847	252	3,099	1,110	35.8	7½
1904 Full year	2,509	179	2,688	1,110	41.3	2½
1905 Full year	3,334	243	3,577	1,610	45.0	9½
1906 Full year	3,873	69	3,942	3,942	100.0	12
1907 Full year	3,501	214	3,715	2,155	58.0	10
1908 Full year	3,140	239	3,379	1,280	37.9	8½
1909 Full year	3,327	220	3,547	1,665	46.9	9
1910 Full year	3,249	291	3,540	1,360	38.4	9
1911 Full year	3,038	239	3,277	1,530	46.7	7
1912 Full year	3,324	243	3,567	1,655	46.4	9
1897-1912, 184 months	48,922	3,574	52,496	17,020	32.4	129½
Per cent of time, 70.4.						
1897-1912 (except 1904), 172 months	46,413	3,395	49,808	17,020	34.2	127
Per cent of time, 73.8.						

400,000 HORSEPOWER.

1897 Sept. to Dec., inclusive	580	176	756	390	51.7	½
1898 Full year	3,256	116	3,372	2,370	70.4	10½
1899 Full year	2,635	233	2,868	1,330	46.4	8
1900 Full year	3,125	267	3,392	2,600	76.7	9½
1901 Full year	3,214	290	3,504	3,504	100.0	12
1902 Full year	2,735	228	2,963	1,515	51.2	8
1903 Full year	2,628	258	2,886	1,110	38.5	8
1904 Full year	2,436	169	2,605	1,110	42.7	4½
1905 Full year	3,078	184	3,262	1,610	49.4	10
1906 Full year	3,504	.....	3,504	3,504	100.0	12
1907 Full year	3,209	216	3,425	2,550	74.4	11
1908 Full year	2,921	226	3,147	1,280	40.7	9½
1909 Full year	3,035	222	3,257	1,665	51.2	9½
1910 Full year	3,030	253	3,283	1,360	41.5	9½
1911 Full year	2,819	244	3,063	1,530	50.0	7½
1912 Full year	3,068	243	3,311	1,655	50.0	10½
1897-1912, 184 months	45,273	3,325	48,598	17,020	35.1	140½
Per cent of time, 76.4.						
1897-1912 (except 1904), 172 months	42,837	3,156	45,993	17,020	37.0	136
Per cent of time, 79.1.						

350,000 HORSEPOWER.

1897 Sept. to Dec., inclusive	558	164	722	420	58.2	2
1898 Full year	2,921	118	3,039	2,735	90.0	11
1899 Full year	2,416	241	2,657	1,330	50.1	9
1900 Full year	2,833	233	3,066	3,066	100.0	12
1901 Full year	2,913	153	3,056	3,066	100.0	12
1902 Full year	2,516	232	2,748	1,705	62.0	9
1903 Full year	2,409	246	2,655	1,110	41.8	8½
1904 Full year	2,320	194	2,514	1,110	44.2	6½
1905 Full year	2,756	179	2,935	1,610	54.9	10½
1906 Full year	3,066	.....	3,066	3,066	100.0	12
1907 Full year	2,902	164	3,066	3,066	100.0	12
1908 Full year	2,672	220	2,892	2,015	69.8	10
1909 Full year	2,743	226	2,969	2,075	69.9	10
1910 Full year	2,787	190	2,977	2,005	67.3	11
1911 Full year	2,600	253	2,853	2,225	78.1	9
1912 Full year	2,769	228	2,997	2,250	75.1	11
1897-1912, 184 months	41,181	3,041	44,222	17,020	38.5	155½
Per cent of time, 84.5.						
1897-1912 (except 1904), 172 months	38,861	2,847	41,708	17,020	40.8	149
Per cent of time, 86.7.						

800,000 HORSEPOWER.

	Muscle Shoals.	Cherokee Bluffs.	Total.	Total continuous power.	Per cent continuous of total.	Number of months total horsepower is possible.
	H. P. H. Million	H. P. H. Million	H. P. H. Million	H. P. H. Million		
1897 Sept. to Dec., inclusive	522	164	686	420	61.2	2
1898 Full year	2,556	72	2,628	2,628	100.0	12
1899 Full year	2,179	229	2,408	1,330	55.3	9½
1900 Full year	2,523	105	2,628	2,628	100.0	12
1901 Full year	2,564	64	2,628	2,628	100.0	12
1902 Full year	2,278	212	2,490	1,705	68.5	10
1903 Full year	2,172	228	2,400	1,645	68.6	9
1904 Full year	2,156	216	2,372	1,110	46.9	9½
1905 Full year	2,428	183	2,611	2,230	85.6	11½
1906 Full year	2,628	.....	2,628	2,628	100.0	12
1907 Full year	2,582	46	2,628	2,628	100.0	12
1908 Full year	2,400	190	2,590	2,170	83.9	11
1909 Full year	2,451	177	2,628	2,628	100.0	12
1910 Full year	2,440	178	2,618	2,410	92.1	11½
1911 Full year	2,381	247	2,628	2,628	100.0	12
1912 Full year	2,441	187	2,628	2,628	100.0	12
1897-1912, 184 months	36,701	2,498	39,199	17,020	43.5	170
Per cent of time, 92.4.						
1897-1912 (except 1904), 172 months	34,545	2,282	36,827	19,320	52.5	160½
Per cent of time, 93.4.						

The following tables show the power available at Muscle Shoals with Tallapoosa River (Cherokee Bluffs, Montgomery Light & Water Power Co., and Tallassee Falls Manufacturing Co. sites) as auxiliary when needed, assuming a total of 500,000, 450,000, 400,000, and 350,000 24-hour 80 per cent efficiency horsepower, respectively, when river flow will permit. Tallapoosa River was only used when the required power could not be obtained at Muscle Shoals. Installations were assumed as large enough to furnish the required power, the storage available at Cherokee Bluffs being used when not exhausted.

The period of time covered is from September, 1897, to December, 1912, inclusive, this being the time of record for Tallapoosa River flow.

The second and third columns in the table show the number of million horsepower hours obtained from Muscle Shoals and Tallapoosa River, respectively, and the fourth column is a total of the second and third. The fifth column shows the total continuous power in million horsepower hours on the basis of the lowest half month. The sixth column shows the percentage of the total power which would be continuous. The seventh shows the number of months that 500,000 horsepower, etc., could be obtained. In each table the data is stated for each year with a summary for the entire period and also one for the entire period omitting the year 1904.

500,000 HORSEPOWER.

	Muscle Shoals.	Tallapoosa River.	Total.	Total continuous power.	Per cent continuous of total.	Number of months total horsepower is possible.
	Million H. P. H.	Million H. P. H.	Million H. P. H.	Million H. P. H.		
1897 Sept. to Dec., inclusive	580	395	975	444	45.6	1
1898 Full year	3,681	375	4,056	2,448	60.4	9½
1899 Full year	3,045	550	3,595	1,428	39.7	8½
1900 Full year	3,632	686	4,318	3,636	84.3	11
1901 Full year	3,798	582	4,380	4,380	100.0	12
1902 Full year	3,138	551	3,689	1,692	45.9	8½
1903 Full year	3,066	574	3,640	1,248	34.3	8½
1904 Full year	2,582	460	3,042	1,176	38.7	8
1905 Full year	3,588	530	4,118	1,752	42.7	10½
1906 Full year	4,238	142	4,380	4,380	100.0	12
1907 Full year	3,765	504	4,269	3,048	71.5	11
1908 Full year	3,359	536	3,895	1,356	34.8	9½
1909 Full year	3,591	535	4,126	2,388	58.0	10
1910 Full year	3,468	612	4,080	1,644	40.3	10
1911 Full year	3,257	566	3,823	1,656	43.3	8½
1912 Full year	3,551	668	4,219	2,628	62.3	10
1897-1912, 184 months	52,334	8,266	60,600	18,032	29.7	143½
Per cent of time, 78.						
1897-1912 (except 1904), 172 months	49,752	7,806	57,558	19,136	33.3	140½
Per cent of time, 81.8.						

450,000 HORSEPOWER.

1897 Sept. to Dec., inclusive	580	395	975	444	45.6	1½
1898 Full year	3,499	305	3,804	2,604	68.5	10½
1899 Full year	2,854	526	3,380	1,428	42.2	9
1900 Full year	3,388	554	3,942	3,942	100.0	12
1901 Full year	3,505	437	3,942	3,942	100.0	12
1902 Full year	2,954	517	3,471	2,004	57.8	9
1903 Full year	2,847	573	3,420	1,692	49.5	9
1904 Full year	2,509	465	2,974	1,176	39.5	4½
1905 Full year	3,334	475	3,809	2,350	61.4	11
1906 Full year	3,873	69	3,942	3,942	100.0	12
1907 Full year	3,501	441	3,942	3,942	100.0	12
1908 Full year	3,140	553	3,693	1,356	36.7	10½
1909 Full year	3,327	505	3,832	2,544	66.5	10½
1910 Full year	3,249	578	3,827	2,016	52.6	10½
1911 Full year	3,038	574	3,612	2,352	65.2	9
1912 Full year	3,324	534	3,858	1,920	49.8	11½
1897-1912, 184 months	48,922	7,501	56,423	18,032	32.0	154½
Per cent of time, 84.						
1897-1912 (except 1904), 172 months	46,413	7,036	53,449	20,424	38.2	150
Per cent of time, 87.3.						

400,000 HORSEPOWER.

1897 Sept. to Dec., inclusive	580	383	963	444	46.2	2½
1898 Full year	3,256	248	3,504	3,504	100.0	12
1899 Full year	2,685	538	3,168	1,428	45.1	10
1900 Full year	3,125	379	3,504	3,504	100.0	12
1901 Full year	3,214	290	3,504	3,504	100.0	12
1902 Full year	2,735	525	3,260	2,004	61.5	10
1903 Full year	2,628	559	3,187	1,884	59.2	9½
1904 Full year	2,436	479	2,915	1,176	40.3	7
1905 Full year	3,078	402	3,480	2,928	84.2	11½
1906 Full year	3,504	.....	3,504	3,504	100.0	12
1907 Full year	3,209	295	3,504	3,504	100.0	12
1908 Full year	2,921	502	3,423	2,532	74.0	11
1909 Full year	3,035	469	3,504	3,504	100.0	12
1910 Full year	3,030	474	3,504	3,504	100.0	12
1911 Full year	2,819	579	3,398	2,652	78.0	10
1912 Full year	3,068	436	3,504	3,504	100.0	12
1897-1912, 184 months	45,273	6,553	51,826	18,032	34.8	167½
Per cent of time, 91.1.						
1897-1912 (except 1904), 172 months	42,837	6,074	48,911	20,424	41.8	160½
Per cent of time, 93.4.						

350,000 HORSEPOWER.

	Muscle Shoals.	Tallapoosa River.	Total.	Total continuous power.	Per cent continuous of total.	Number of months total horsepower is possible.
	Million H. P. H.	Million H. P. H.	Million H. P. H.	Million H. P. H.		
1897 Sept. to Dec., inclusive	558	869	927	640	69.1	8
1898 Full year	2,921	145	3.066	3,066	100.0	12
1899 Full year	2,416	528	2.939	1,548	52.7	11
1900 Full year	2,833	233	3,066	3,066	100.0	12
1901 Full year	2,913	153	3,066	3,066	100.0	12
1902 Full year	2,516	515	3,031	2,232	73.6	11½
1903 Full year	2,409	521	2,930	1,980	67.6	10½
1904 Full year	2,320	504	2,824	1,176	41.6	9½
1905 Full year	2,756	310	3,066	3,066	100.0	12
1906 Full year	3,066	.....	3,066	3,066	100.0	12
1907 Full year	2,902	164	3,066	3,066	100.0	12
1908 Full year	2,672	394	3,066	3,066	100.0	12
1909 Full year	2,743	323	3,066	3,066	100.0	12
1910 Full year	2,787	279	3,066	3,066	100.0	12
1911 Full year	2,600	466	3,066	3,066	100.0	12
1912 Full year	2,769	297	3,066	3,066	100.0	12
1897-1912, 184 months	41,181	5,196	46,377	18,032	38.9	177½
Per cent of time, 96.5.						
1897-1912 (except 1904), 172 months	38,861	4.692	43,553	23,736	54.4	168
Per cent of time, 97.7.						

The following tables show the power available at Muscle Shoals, with Tallapoosa River (Cherokee Bluffs, Montgomery Light & Water Power Co., and Tallassee Falls Manufacturing Co. sites) and Little River as auxiliaries when needed, assuming a total of 500,000, 450,000, 400,000, and 350,000, 24-hour, 80 per cent efficiency horsepower, respectively, when the river flow will permit. The auxiliaries were only used when the required power could not be obtained at Muscle Shoals. Installations were assumed as large enough to furnish the required power, the storage available at Cherokee Bluffs and Little River being used when not exhausted.

The period of time covered is from September, 1897, to December, 1912, inclusive, this being the time of record for Tallapoosa River flow. The record of Little River flow started January 1, 1906. Flow data used for Little River before that time were obtained from Riverside records on the Coosa River and a curve of comparison of Coosa and Little River flow for 1906 to 1912, inclusive.

The second, third, and fourth columns in the tables show the number of million horsepower-hours obtained from Muscle Shoals, Tallapoosa River, and Little River, respectively, and the fifth is a total of the second, third, and fourth. The sixth column shows the total continuous power in million horsepower-hours on the basis of the lowest half month. The seventh column shows the percentage of the total power which would be continuous. The eighth shows the number of months that 500,000 horsepower, etc., could be obtained. In each table the data are stated for each year, with a summary for the entire period, and also one for the entire period, omitting the year 1904.

500,000 HORSEPOWER.

	Muscle Shoals.	Tallapoosa River.	Little River.	Total.	Total continuous power.	Per cent continuous of total.	Number of months total horsepower is possible.
	Million H. P. H.	Million H. P. H.	Million H. P. H.	Million H. P. H.	Million H. P. H.		
1897 Sept. to Dec., inclusive	580	395	64	1,039	444	42.7	1
1898 Full year	3,681	375	27	4,083	2,604	63.8	9½
1899 Full year	3,045	550	65	3,660	1,428	39.0	8½
1900 Full year	3,632	686	62	4,380	4,380	100.0	12
1901 Full year	3,798	582	.....	4,380	4,380	100.0	12
1902 Full year	3,138	551	65	3,754	1,692	45.2	8½
1903 Full year	3,066	574	65	3,705	1,248	33.7	8½
1904 Full year	2,582	460	19	3,061	1,176	38.4	8
1905 Full year	3,583	530	67	4,180	1,980	47.4	11
1906 Full year	4,238	142	.....	4,380	4,380	100.0	12
1907 Full year	3,765	504	66	4,335	3,288	76.0	11½
1908 Full year	3,359	536	66	3,961	1,476	37.3	10
1909 Full year	3,591	535	74	4,200	3,156	75.2	10
1910 Full year	3,468	612	67	4,147	2,412	58.2	10
1911 Full year	3,257	566	76	3,899	1,824	46.8	9
1912 Full year	3,551	668	70	4,289	3,396	79.2	10
1897-1912, 184 months	52,334	8,266	853	61,453	18,032	29.4	146½
Per cent of time, 79.7.							
1897-1912 (except 1904), 172 months	49,752	7,806	834	58,392	19,136	32.8	143½
Per cent of time, 83.5.							

450,000 HORSEPOWER.

1897 Sept. to Dec., inclusive	580	395	64	1,039	444	42.7	1½
1898 Full year	3,499	305	27	3,831	2,628	68.7	11
1899 Full year	2,854	526	66	3,446	1,428	41.4	9
1900 Full year	3,388	554	.....	3,942	3,942	100.0	12
1901 Full year	3,505	437	.....	3,942	3,942	100.0	12
1902 Full year	2,954	517	66	3,537	2,004	56.7	9
1903 Full year	2,847	573	66	3,486	1,884	54.1	9
1904 Full year	2,509	465	18	2,992	1,176	39.3	4½
1905 Full year	3,334	475	55	3,874	3,120	80.6	11
1906 Full year	3,873	69	.....	3,942	3,942	100.0	12
1907 Full year	3,501	441	.....	3,942	3,942	100.0	12
1908 Full year	3,140	553	65	3,758	2,256	60.1	10½
1909 Full year	3,327	505	74	3,906	3,516	90.0	11
1910 Full year	3,249	578	67	3,894	3,552	91.3	10½
1911 Full year	3,088	574	76	3,688	2,376	64.4	9½
1912 Full year	3,324	534	64	3,922	3,456	88.1	11½
1897-1912, 184 months	48,922	7,501	718	57,141	18,032	31.6	156
Per cent of time, 84.8.							
1897-1912 (except 1904), 172 months	46,413	7,036	700	54,149	20,424	37.8	151½
Per cent of time, 88.2.							

400,000 HORSEPOWER.

1897 Sept. to Dec., inclusive	580	383	65	1,028	608	59.2	3
1898 Full year	3,256	248	.....	3,504	3,504	100.0	12
1899 Full year	2,635	533	64	3,232	1,548	47.9	10
1900 Full year	3,125	379	.....	3,504	3,504	100.0	12
1901 Full year	3,214	290	.....	3,504	3,504	100.0	12
1902 Full year	2,735	525	61	3,321	2,004	60.4	10½
1903 Full year	2,628	559	65	3,252	1,992	61.4	10
1904 Full year	2,436	479	18	2,933	1,176	40.1	7
1905 Full year	3,078	402	24	3,504	3,504	100.0	12
1906 Full year	3,504	.....	.....	3,504	3,504	100.0	12
1907 Full year	3,209	295	.....	3,504	3,504	100.0	12
1908 Full year	2,921	502	65	3,488	3,132	89.7	11½
1909 Full year	3,035	469	.....	3,504	3,504	100.0	12
1910 Full year	3,030	474	.....	3,504	3,504	100.0	12
1911 Full year	2,819	579	73	3,471	3,168	91.4	10½
1912 Full year	3,068	436	.....	3,504	3,504	100.0	12
1897-1912, 184 months	45,273	6,553	485	52,261	18,032	34.5	170½
Per cent of time, 92.8.							
1897-1912 (except 1904), 172 months	42,837	6,074	417	49,328	23,736	48.2	163½
Per cent of time, 95.1.							

350,000 HORSEPOWER.

	Muscle Shoals.	Tallapoosa River.	Little River.	Total.	Total continuous power.	Per cent continuous of total.	Number of months total horsepower is possible.
	Million H. P. H.	Million H. P. H.	Million H. P. H.	Million H. P. H.	Million H. P. H.		
1897 Sept. to Dec., inclusive	558	369	66	993	784	79.0	8½
1898 Full year	2,921	145	.....	3,066	3,066	100.0	12
1899 Full year	2,416	523	65	3,004	1,596	53.1	11½
1900 Full year	2,833	233	.....	3,066	3,066	100.0	12
1901 Full year	2,913	153	.....	3,066	3,066	100.0	12
1902 Full year	2,516	515	35	3,066	3,066	100.0	12
1903 Full year	2,409	521	65	2,995	2,220	74.2	11
1904 Full year	2,320	504	19	2,843	1,272	44.8	9½
1905 Full year	2,756	310	.....	3,066	3,066	100.0	12
1906 Full year	3,066	.....	.....	3,066	3,066	100.0	12
1907 Full year	2,902	164	.....	3,066	3,066	100.0	12
1908 Full year	2,672	394	.....	3,066	3,066	100.0	12
1909 Full year	2,743	323	.....	3,066	3,066	100.0	12
1910 Full year	2,787	279	.....	3,066	3,066	100.0	12
1911 Full year	2,600	466	.....	3,066	3,066	100.0	12
1912 Full year	2,769	297	.....	3,066	3,066	100.0	12
1897-1912, 184 months	41,181	5,196	250	46,627	19,504	41.8	179½
Per cent of time, 97.6.							
1897-1912 (except 1904), 172 months	38,861	4,692	231	43,784	24,472	56.0	170
Per cent of time, 98.9.							

Coosa River system.—While it can not be said at this time whether the operation of the proposed plants on the Coosa River will or will not increase the amount of power which can be commercially generated at Muscle Shoals, these plans will be considered here in a general way to show the ultimate relation between the Coosa system and the Muscle Shoals-Tallapoosa system:

The following plants are proposed on the Coosa: Lock 12 (now completed), Lock 7, Lock 14, Lock 15, and Lock 18. In the place of Lock 14 and Lock 15, we proposed to raise the Lock 18 dam to a height which will back the water up to Duncans Riffle and to build a dam at Duncans Riffle which will back the water up to Lock 12. The total amount of fall between the pool level of Lock 12 and the tail water of Lock 18 is 230 feet, the distance between them is 32.8 miles. Diagrams Nos. A-3457, A-3458, and A-3459, show the amount of power available at these sites. The pools above these dams are of no great extent, being 5,200, 3,500, and 3,600 acres in extent above Lock 12, Duncans Riffle, and Lock 18, respectively. These pools are of sufficient area for storage of water during fluctuations covering several days, but will be of little benefit in storing water for extended dry periods.

The Lock 18 site has been studied in detail, and subsurface conditions have been investigated by diamond drilling. It is an admirable site, foundations are good, quantities of masonry required being comparatively low, and construction materials being near at hand.

The Duncans Riffle site has been studied superficially, and sufficient information has been obtained to show that in cost and ease of construction, it will compare favorably with the Lock 18 site.

No study has been made of the Lock 7 site.

The Army Engineers propose to build a dam and reservoir on the Etowah River at Cartersville, Ga., which will add an immense amount to the primary power of the plants on the Coosa. The project will consist of a dam 150 feet high, impounding thirty billion cubic feet of water. The object of this reservoir is primarily to increase the flow of water in Alabama River below Montgomery for the aid of navigation, the available draft to be used to amplify the low flow being variously estimated from 4,000 to 5,000 second-feet. The dam site is 3 miles above Cartersville and the entire reservoir is in Georgia. Surveys of reservoir have been made by the Army Engineers and their findings are in a report on the Coosa River prepared by Maj. Ferguson. (See House Document No. 253, 63rd Congress, 1st Session, October 16, 1913.) The dam site is now owned by the Georgia Railway & Power Co., who own a considerable amount of land within the reservoir.

The dam proposed by these people for power purposes is lower and the amount of storage is less than that proposed by the Army Engineers. The height of dam and amount of storage which will ultimately be obtained at this site is of vital interest to this company and to satisfy the ultimate needs, storage should be as great as possible.

It must be kept in mind that the natural resources of the Coosa River are very great, and that the coal and ore lands of its valley are passing gradually from the farmers and lumbermen who can not undertake to develop them into the hands of capitalists and speculators, whose demand for navigation on the Coosa River will become more and more insistent. Although the Army Engineers have recently reported against improvements for navigation on the Coosa, the ultimate result should be that a large part of the construction of dams at Lock 18, Duncans Riffle, and Cartersville will be borne by the Government, if the Government is inclined to meet the demands for navigation, and this company must be prepared to cooperate with it in the construction of these dams, and it furthermore must be prepared to dispose of this power.

Fortunately raw materials for electric-furnace work are near at hand, and there seems to be no doubt but that a market can be developed.

CONSERVATION OF WATER POWER AND GOVERNMENT CONTROL OF NAVIGABLE STREAMS.

All of the large water powers of Alabama are in the Mobile and Tennessee Basins and most of them are on navigable streams, the only exception being the powers on the Tallapoosa River, but even these, by virtue of large storage dams proposed, will greatly assist in giving a more uniform flow in the lower Coosa, known as the Alabama River, thus giving a better navigable channel.

The prompt development of the great powers on the Coosa and Tennessee rivers will therefore depend on the attitude of the General Government in granting permits for the construction of power dams on these navigable streams.

The following is an extract from the report of the Committee on Water Power, Fifth National Conservation Congress, at Washington, D. C., November, 1913. Five out of the seven committeemen present signed this report, and the principles and recommendations set forth are believed to be sound and practical:

"There are three essentials of a sound water power policy:

1. Prompt development.
2. Prevention of unregulated monopoly.
3. Good service and fair charges to the consumer.

The regulation of service and charge is usually a state or local function. It should be exercised by the Nation only in interstate industry and possibly when the failure of other agencies might result in abuses.

There are three kinds of natural material resources in the conservation of which we are concerned:

1. Those resources which are not renewable and in which utilization, even though without any waste, necessarily destroys the store available for future generations. Such are coal, oil, gas, phosphates, etc. Every particle of these resources which is utilized diminshes by so much what is left for our successors.

2. Those resources which are self-renewing, though at a comparatively slow rate, requiring considerable time for a complete renewal. In this class are included the forests, which may be entirely cut down, but which will reproduce themselves in time, although perhaps at the expense of serious loss in other ways in the meantime, as, for instance, by erosion. In the case of these resources any utilization diminishes the store available for our immediate successors, although distant future generations may be able to replace the loss.

3. Water power falls in a different class from either of the above, and seems to occupy a place by itself, having several peculiar characteristics. In the first place, while resources of the first two kinds, if not utilized, are stored and preserved for the use of future generations, water power, if not utilized, is *immediately wasted with no good results to anybody.* Nevertheless, new water flows day by day and year by year, and, speaking generally, the power is perpetual. It is like a free gift, offered by the Creator to man, which flows by him in a continuous stream and may be had for the taking.

Water power presents a second peculiar characteristic in that its conservation is a double conservation. The utilization of water power for a purpose for which steam power, or some other form requiring the use of fuel, would be employed, is not only the utilization of a freely-given resource which would otherwise be wasted, but it involves the saving of a corresponding amount of one of the non-renewable resources. The use of water power to furnish motive power for street or steam railways, or for lighting, saves an equivalent amount of coal. The *conservation* of water power, therefore, is a double *conservation,* and it would seem, inasmuch as it involves the conservation of a non-renewable resource of a strictly limited supply, that it is of greater importance than that of any other of our physical resources.

But there is a third peculiarity of water power. It arises from the water flowing in a stream, but this stream affords other uses, as for irrigation, water supply, and navigation. For the proper conservation of the water in a stream, all these four uses must be considered. Its development for one purpose must, so far as possible, be consistent with its development for the others. All must be developed so as to be productive of the greatest total good. The four uses above referred to are inseparably connected, particularly the use of a river for water power and for purposes of navigation, in cases where both of these uses are economically practicable.

We repeat, therefore, that in conserving the non-renewable and slowly renewable resources, the avoidance of waste, the maximum economy, and economical and restricted use, should be the guiding principle.

In the case of water power, however, a point of view almost the opposite of this—within proper limits—would seem to be the true one. Here, instead of restriction, the greatest posible use should be advocated. That use should not be wasteful, nor is it consistent with sound principles of public and individual economy, to have it used for extravagant or unnecessary purposes; but *any proper use* is better than *no use at all,* for every use, for an object that would otherwise be indulged in, conserves a non-renewable resource. In

the one case, therefore, our guiding principle is restriction; in the other case, it is the encouragement of the greatest possible economical development. The power should be so utilized as to produce the greatest good to the greatest number.

If we admit the great importance of encouraging in every legitimate and proper way and to the great legitimate and proper extent the development of water power, it remains to consider some of the dangers with which such development may be attended, and the attitude which the National Government and the states should take towards the subject.

It is perfectly clear that in order to induce the investment of private capital in water power enterprises, three things are essential:

1. Definiteness in the contract entered into.
2. The prospect of a sufficiently attractive return, commensurate with the risk involved.
3. The protection of the courts in case of dispute. Without these three things the utilization of water powers by private capital cannot be brought about.

Considering then in the first place the case of navigable streams, there are two special cases to be considered:

1. Where the Government builds dams to improve navigation.
2. Where the Government grants permits to individuals or corporations to build dams for the development of water power.

If the Government builds dams to render a river navigable the water power developed is a by-product of the navigation works. If it allows others to build dams for water power purposes the improvement to navigation is a by-product of the power development.

I. At Government dams in navigable streams it is most desirable in the interests of conservation that the surplus power beyond the needs of navigation should be utilized. Inasmuch, however, as the Government has built the dam, there can be no question that any permit or grant for the use of power should require the grantee to pay a reasonable compensation therefor to the Federal Government. It is true that the amount of such compensation may in some cases be passed on to the consumer, and represented by an increased rate for power. In other cases, where water power competes with steam, there will be no necessary increase in rate due to the Government charge. Nevertheless, this charge should be paid to the Federal Government and not to the consumer in the form of reduced rates, for the reason that the cost of the dam has been paid by all the people, and all the people should, therefore, receive the benefit of the value accruing therefrom.

II. At dams on navigable rivers constructed by public service corporations, or by private parties, the first requisite is that the plan of development should be subject to Government approval, in

order to insure that the project will not interfere with the proper development of the stream for navigation; and further, the operation of the plant should not restrict navigation. It should, therefore, be required that before the right to construct a dam and utilize water power upon any navigable stream is granted by the Federal Government, there should be a survey of at least that portion of the stream, the regimen of which would be affected by the proposed construction, and a further requirement that the dam and works should be built in such a manner and of such dimensions as not to interfere with the ultimate proper development of the stream as a navigable waterway.

The General Dam Act provides that the grantee should, when required by the Secretary of War so to do, construct locks suitable for navigation, and to furnish power and water for operating them, and also to light the Government buildings and grounds.

This case differs from the one previously considered in the fact that the power development may be of great benefit to the Government in aiding the navigability of the stream, and that the Government pays nothing for these works, but secures the benefit of the dam and the pond above it, and the flowage rights, without any expense. Projects of this kind would, therefore, materially aid the Federal Government in securing the navigability of our inland waters, and if we can imagine the case in which a stream were fully utilized for water power by a series of dams, each backing the water up to the next and all provided with locks, the water power development would at the same time render the stream completely navigable, without any expense to the Government.

As to the charge therefor which the Government should exact, in such cases, this might fairly be materially less than in the case of water power utilized at Government dams. Circumstances will differ, however, in different cases.

The preservation of the Government rights, whatever they may prove to be, being recognized by the principles that the Government must give a permit and fix its terms, we believe that in many cases the real interests of conservation will be best surbserved by making no Government charge, the improvement of navigation brought about by the construction of the dam and locks being accepted in lieu of charge. In other cases, some charge may be desirable.

It is more important that a wise development should be encouraged and that the consumer should obtain his power at the lowest rate consistent with a proper return on the money invested, than that the Government, whether Federal or State, should participate in the profits.

In view of the above, and of other considerations, the full treatment of which would require more space than can properly be claimed for a report of this kind, the Committee believes that the development or conservation of water powers, together with the proper protection of the public interest, can best be secured by the enactment in Congress of legislation which will contain the following provisions:

(1) The granting, without distinction, to all states and governmental subdivisions thereof, and to all public service corporations charged by any state with the power so to do, the right to construct, maintain and operate dams in any of the navigable streams in the United States and territories and island possessions thereof, provided that such maintenance, construction and operation does not adversely affect the navigable qualities of such navigable streams; and provided further that the grantee shall construct and shall at all times maintain and operate, such dams under the supervision of and in the manner to be approved by the War Department of the United States; and shall construct and maintain locks and other necessary appurtennaces in such dams when required so to do by the Secretary of War, and subject to his approval; and shall, without cost to the United States Government, at all times provide the necessary water, power and light required by the Government for the operation of said locks, and shall, under the supervision of the Government, maintain the water at such heights in the pond created by such dam as may be required by the Government to best facilitate navigation. Upon an application being made to the Secretary of War for a grant to construct, maintain and operate any of such dams it should be the duty of the Secretary to take testimony at public hearing before a Commissioner of the United States Court to establish sufficient information of record to determine whether or not the construction, maintenance or operation of such dam will adversely affect navigation. Such Commissioner, after full hearings, shall make findings of facts on this point and file the same, as a public document, with the Secretary of War and such findings shall be conclusive and final as to whether or not navigation will be adversely affected in the premises, but if either the Secretary or the applicant believes that the findings are not in accordance with the evidence, such dissatisfied party shall have the right to appeal to the United States District Court in the district where the proposed improvement is located and the adjudication of the question in controversy by the Court shall be binding upon both the Government and the applicant.

(2) The granting to all states and governmental subdivisions thereof and to any public service corporation organized under the

laws of any state and authorized by said states so to do, the right to receive on suitable application an indeterminate grant by the Government, but such indeterminate grant to be in the nature of a contract between the Government and the grantee; the grant being made in consideration of certain developments, improvements and public use by the grantee, with the condition that the grantor may, at any time, after a fixed period terminate the grant as above explained.

(3) The grantee, if a public service corporation, shall at all times be subject and amenable to the lawful regulation of its charges for service and of the character and quality of its service; such regulation to be by any governmental body at the time having authority in the premises, but such regulation shall, if possible, be by only one governmental body.

(4) In the event that the property of the grantee (whether said property be upon navigable streams or upon the public domain) shall be acquired by the Government through condemnation proceedings the grantee shall never plead any value in the way of anticipated profits in excess of such reasonable rate of return as the courts may hold under the circumstances is proper for the grantee, as a public servant, to accept.

(5) The payment for water power franchise granted to be provided for by allowing the corporation to earn up to a defined per cent upon the money properly invested, such percentage to be dependent upon circumstances, and different in different parts of the country; any excess of earnings above such percentage to be divided with the Federal Government (or in the case of a grant by a state with the state) in some defined manner, the rate of division to be subject to revision at periodical intervals, the first period being the longest: and long enough to make the development financially attractive; its books to be open to Government inspection. In the case of a development in which the Federal Government has no interests, but which is under control of a state, a similar permit to be used.

(6) The granting to private concerns by the Federal Government of the right to construct, maintain and operate dams on navigable streams under same conditions as above enumerated, excepting those under (5), instead of which the Secretary of War shall be authorized to make such agreement with the grantee with reference to terms of payment as he may deem just and reasonable.

(7) No speculative holding of undeveloped power sites should be permitted, and no transfer or assignment of any grant should be made without authority from the Government.

Finally, we repeat that for the conservation of our water powers it is essential that capital shall be attracted to these enterprises, and while we must, of course, fully protect the interests of the public, both present and future, we are not conservationists if we advocate the imposition of terms which restrict rather than encourage development. We must also remember that under present conditions water power investments are not especially attractive, and that steam power is a more desirable form of power, since it can be located wherever needed, and the supply regulated according to demand. Water power is more variable, and furthermore, it requires, in general, a very much larger investment per horse power than steam, though its running expenses are less. Because of the large cost of water power developments the risk of less in case of failure of the enterprise is correspondingly large. Capital, therefore, does not need water power enterprises, and it will not take them up to any considerable degree, unless fully protected.

It is from a point of view of pure conservation that the development of water power is most important.

It has been estimated that we use annually over four hundred and eighty million tons of coal, worth nearly a billion dollars, in addition to many million dollars' worth of other fuels; and that some two hundred million dollars' worth of this fuel annually might perhaps be saved by the utilization of water powers. When we consider also that the development of water power not only conserves fuel, but directly serves to promote the navigability of rivers, we should be very careful how we discourage this triple conservation in order to secure other results which we may consider desirable. If we do discourage it we may be anti-monopolists, or something else, but we are certainly not conservationists."

GEORGE F. SWAIN, *Chairman*,
LEWIS B. STILLWELL,
M. O. LEIGHTON,
EDWIN S. WEBSTER,
B. M. HALL."

It is here considered appropriate, and in keeping with the above principles, to present the following extract from an address at the second Pan-American Congress in January, 1916, by Dr. George Otis Smith, Director U. S. Geological Survey:

"PUBLIC CONCERN IN WATER POWER."

BY GEORGE OTIS SMITH.

"The people's interest in water power is served only through use. Whenever the energy of flowing water can be put to work at a cost justified by results, nonuse of a water power is an economic waste.

But better not even a partial development now, if thereby the full utilization that may be needed in the near future is blocked. From the standpoint of the public what is needed in waterpower utilization is efficient development that will meet market demands, and effective regulation that will secure to all parties interested a participation in the benefits of that development.

It is this logical desire for the best use, in which the largest possible number may share, that makes the utilization of water power a live issue. Unwarranted fear of impending monopoly may have led some to urge a halt in all development, while blind disregard of a changing order of things has caused others to denounce any restriction.

The engineering fact that stands out in the utilization of water power is the comparatively high efficiency of large systems. The combination of several water powers differing in character in order to serve many markets having diversified service requirements makes possible an economic adjustment of supply to demand. Nature's irregularities are thus equalized and man's varied requirements are similarly balanced. The Western states, in which these large hydro-electric systems have been mainly developed, show the largest per capita consumption of power and the lowest average rates.

In Montana one mining company by substituting hydro-electric power for steam effected an annual saving of nearly two million dollars. This means a saving of about 50c. on a ton of ore, thus permitting the mining with an equal profit of ore that is much lower in grade than could be mined when steam-generated power was used. This instance illustrates the wide public interest that may be served through the efficient operation of large units. There exists a certain community of interest between the power corporation and the mining company. A similar community of interest needs only to be created between the public-utility company and the people it serves.

The oft-debated question whether the relation of the Federal Government to water-power sites is that of proprietor or that of sovereign is only incidental to the real issue of the people's larger interest as the consumers of power. Herein lies the purpose of certain legislative proposals that have been misunderstood by some and perhaps misrepresented by others. The method of control may be based upon public ownership of land, police powers or preservation of navigation; the primary results sought will be public protection.

Too often in the past the wealth won by the engineer from the mine, the forest or the stream has been monopolized by the capitalist.

Experience is teaching the American people to regard industrial development as a public matter in which others than owners of stocks and bonds are concerned.

Too often the public interest in water-power resources has been discussed almost wholly in terms of compensation, tolls and charges for the publicly owned resources utilized. The revenue idea connected with this conservation issue has been allowed to overshadow the thought of control in the public interest. A notable exception to this tendency is contained in the Pend d'Oreille permit issued in 1913 by Secretary Lane, which provides that after the ten years allowed for construction of plant and development of market the rate of compensation to the Government shall vary inversely as the square of the proportional development of the site and directly as the square of the average price charged for electric energy to both customers and consumers. Here the objects plainly sought are prompt and complete development and low rates to the public rather than revenue to the Government.

When applied to water-power resources, as to other public utilities, regulation by public agencies needs to begin in the initial stages of development. The terms of the contract between the public consumer of electric energy and the private builder of the hydroelectric plant can be considered before a stone is laid.

In any discussion of the future conduct of the water-power business one of the essential premises is the condition of proper return. This idea is at the foundation of public regulation of private business; but even beneath this is the query, A fair return upon what? The present trend in the determination of the proper basis for rate regulation appears to be away from valuations derived either from cost reproduction or from capitalization and toward actual legitimate investment.

The practical ideal in public regulation is to allow such returns to the private owner and operator as may encourage engineering and executive efficiency. To fix a maximum rate of profit based simply on capital investment might effectually veto improvement in plant or operation beyond the dead-line thus established; therefore the prize of a larger return must be held out to those who make the largest and best use of the natural resource. In the absence of the competitive element the returns to be derived by the private holder of a natural monopoly should be restricted so far as they depend primarily upon his use of the resource which society owns or to which society gives value; but a quite different method of regulation may well be applied to the profits that come from his continued investment of gray matter. Such ability and industry need not be capitalized, yet

betterment of service should produce benefits in which both investor and consumer may share.

Adequate incentive to greater efficiency combined with full recogtion of the people's interest may be provided by any of several methods—the sliding-scale plan adopted for the Boston gas companies makes larger dividends to stockholders contingent on lower prices to consumers; the Chicago street-railway ordinance provides for the division of profits above the fixed rate between the company and the public; a profit-sharing plan worked out by the manager of Wisconsin power company divides excess net profits equally between the company and the consumers. In each of these plans the principle is the same—the investing public and the consuming public are partners in the enterprise, and the duty of the Government is to exercise its protective power in the interest of the private owner of a public utility no less and no more than in the interest of the public user of that utility."

ALABAMA DEVELOPMENTS UNDER GOVERNMENT FRANCHISE.

The only dam so far constructed by private parties on a navigable stream in Alabama is a 68-foot dam at Lock 12 on the Coosa River 48 miles above Wetumpka, that has an up-to-date power plant with a water wheel capacity of 70,000 H. P., completed and put in operation in 1914 by the Alabama Power Company, and is delivering light and power to Birmingham and other industrial centers.

A similar power development was planned for construction at Lock 18, on the same river, 7½ miles above Wetumpka, for the development of 80,000 H. P., to be used locally for the manufacture of cyanamid by a new process for extracting the nitrogen from the atmosphere and fixing it in a lime compound, to be used as a fertilizer. The capital was provided, all the plans were ready for beginning work and the River Bill granting the franchise was passed in 1911 by both houses of the 62nd Congress, but failed to become a law.

The manufacture of fertilizer and materials for explosives from the air by water power is an industry of such great importance that space is here given to an extract from the address of Mr. Frank S. Washburn, President of the American Cyanamid Company, before the National Conservation Congress at Washington, D. C., November 18, 1913, which was printed as Senate Document No. 257, 63rd Congress, 2nd Session, under date of December 4, 1913.

Agricultural Fertilizers From the Air In Relation to Water-Power Development.

By Frank S. Washburn.

FOOD SUPPLY.

The food supply is the chief concern of mankind. The problem of maintaining a cheap and plentiful supply has been greatly accentuated during the past few years, and despite the attention of economists, statesmen, and the public generally no solution is yet at hand. The civilized world is growing at a rate which doubles its numbers in 65 years. Improvements in sanitary science and in the care and feeding of children, the relative infrequency of decimating diseases, and the improved control of deadly epidemics are contributing causes to this unprecedented growth. Hand in hand with the in-

crease in numbers there is an increased per capita consumption of food.

POPULATION VERSUS FOOD SUPPLY, UNITED STATES.

For the 10 years following 1900 the population of the United States grew from 76,000,000 to 92,000,000, an increase of 21 per cent. During the same period crop production increased 10 per cent. In practically the same period our exports of wheat and flour decreased from 31 per cent of their production to only 13 per cent. For the same period the importation of foodstuffs and live animals practically doubled, while imported manufactured foodstuffs more than doubled. Beef cattle produced in this country have fallen off 32 per cent in 6 years, while the population has grown at the rate of 21 per cent.

INCREASED COST OF LIVING.

These figures are strikingly reflected in the increased cost of foodstuffs, which, from 1896 to 1912, amounted to 80 per cent in the United States, while the general advancement in the cost of living during this period was 59 per cent in the United States, 40 per cent in England, and 40 to 45 per cent in continental Europe. We have the same story from India, Australia, and the settled portions of Africa.

The hardships experienced by the wage-earning classes have been very great throughout the world in view of the fact that the percentage of their total expenditures spent for foodstuffs increases as income decreases.

All that has been said relative to food applies, with some modification, to the clothing of mankind.

SOCIAL PROGRESS.

Emancipation from that toil which is rewarded only by food and clothing, and the hope of social progress lies in reducing the cost of material necessities and thereby enabling society to secure in a constantly increasing degree the benefits of clean and orderly living, recreation, education, and the things which are beautiful. The importance of anything that is or promises to be a material factor in the cheaper production of food and clothing is clearly fundamental.

NITROGEN.

Therefore, there is no part or division of the general subject of conservation (in which the whole civilized world is expressing the

keenest interest) as important as soil-fertility conservation, in which the most important single factor is the use of crop fertilizers, the chief of which is nitrogen.

FERTILIZERS.

The use of fertilizers in Europe is much greater than in the United States. Germany has one-fifteenth of the area under cultivation that we have in America, yet her tonnage in fertilizers per annum is as great as that of the United States. The European yields per acre of cultivated ground are 50 to 100 per cent greater than the yields secured by American farmers. The average increase in yield per acre of farm crops in Germany for the past 20 years has been from 50 to 70 per cent; in the United States, from 10 to 30 per cent. The advance in average yields in Europe are due to intensive farming, better selection of seed, the rotation of crops, and, to as great an extent as all these factors together, to the use of commercial fertilizers.

FIXATION ATMOSPHERIC NITROGEN.

The presidential address of Sir William Crookes in 1898 before the British Association for the Advancement of Science seems to mark the first definite logical conception of the fact, as he disclosed it, that the consumption of food in the world was rapidly outrunning the available lands upon which to grow it. His solution for the problem was the more plentiful and general use of fertilizers, chiefly nitrogen. However, the only natural available source of nitrogen, the deposits of sodium nitrate in the plains of Chile, were decreasing, and the exhaustion of the richer and more cheaply worked deposits could be but a matter of comparatively few years. The one other natural source is the gaseous envelope of the earth, which we call the atmosphere, 80 per cent of which is notrogen. At the time Sir Wiliam Crookes's epoch-making forecast this source was not available for the reason that nitrogen as a gas is wholly inert and useless, and man had discovered no practicable means of converting it to soluble form acceptable to plant life. He forecasted what was called "world starvation," unless means should be discovered for fixing atmospheric nitrogen.

FIXATION PROCESSES.

This plea found ready and sympathetic acceptance among the scientific men of the world and many of the foremost chemists started on the long road to the discovery of commercially practi-

cable means for conserving the atmosphere. The researches were secretly conducted, covered a period of 8 to 10 years of unceasing effort, were accompanied by many disappointments and seemingly hopeless struggles, and the expenditure of great fortunes, supported in some cases by individuals and in others by the greatest of European banking institutions. These efforts have grown into a great art, and almost as if in a night the world has been presented with a new industry of incalculable value.

THE INDUSTRY.

The industry has been in commercial operation for approximately four years. Such processes as have proved up to the present time to be commercially feasible secure their results through electrochemical means involving the consumption of a vast amount of electrical energy. Today this infant industry, just emerging from the experimental period, is practiced throughout the world, except in the United States, and converts into food crops the energy of falling water equivalent to the entire amount of water power generated and applied directly by all the large manufacturing companies in the entire United States. The water power already definitely reserved for extensions, together with that already in use, is equivalent to twice the entire amount of water power now generated in the United States by manufacturing companies.

TECHNICAL DESCRIPTION.

It is not the direct purpose of this paper to be technical, but rather that it should be economic. However, a natural interest in the simpler technical and scientific features of this new industry can only be satisfied by some description of the processes themselves. There are two principal methods of proved commercial practicability for the fixation of atmospheric nitrogen. The arc or calcium nitrate process proceeds by means of the electric arc, which produces a temperature so intense that the nitrogen and oxygen in the air brought into the area of the arc are caused to form nitrous fumes, which, as they leave the electric furnace and afterwards cool are passed over water trickling through granite towers filled with broken quartz, where a weak nitric acid results, and through iron towers percolated by a solution of soda, wheer sodium nitrate results. Ninety-seven per cent of the nitrous fumes are thus absorbed. The nitric acid is passed on to granite vats filled with limestone, where a watery solution of calcium nitrate results, to be later evaporated to dryness. The sodium nitrate solution is evaporated and allowed to crystallize. Calcium nitrate has as high a fertilizing value as sodium nitrate, the natural product from Chile.

Other valuable products are produced, such as concentrated nitric acid and ammonium nitrate. There are a number of arc processes, varying in their mechanical and electrical details, but all achieve about the same energy efficiency.

The cyanamid process for the fixation of atmospheric nitrogen proceeds by the way of combining nitrogen gas with calcium carbid to form calcium cyanamid. The characteristic steps of the process are simple, consisting first of bringing calcium and carbon, in the forms respectively of lime and coke, into chemical combination in the intense temperatures of the electric furnace, forming calcium carbid, grinding their product to a powder and treating it in a secondary set of electric furnaces with nitrogen gas of a high degree of purity. The nitrogen is best secured by the mechanical liquefaction of air and its coincident fractional distillation. The product from the secondary furnaces is crushed and reduced to the form of powder, hydrated to remove caustic lime, and is ready in this state for direct application to the soil, either alone or in combination with other plant foods. Cyanamid has other uses as the raw material in the manufacture of a long line of derivatives, such as ammonia, nitric acid, ammonium nitrate, and, possibly more important than all of these together, in the production of a cheap cyanide, which may have a profound effect on gold, silver, and copper reduction. The product, ton for ton, has a higher fertilizing value than Chilean nitrate, and per unit of nitrogen practically the same fertilizing value as calcium nitrate, Chilean nitrate, sulphate of ammonia, blood, tankage, and cottonseed meal.

PRESENT STATUS OF THE INDUSTRY.

To what have these processes come in practically four years of commercial operation? The principal development of the arc process has been in Norway by the company whose chief is Dr. Samuel Eyde, where 200,000 continuous horsepower is now in use and 200,000 will soon be added thereto, and still another 150,000 has been reserved for future developments. This company has invested $27,000,000. It has built two towns entirely peopled by those dependent upon the industry, one of a population of 5,000, where there were originally 500 people, the other of a population of 5,000 to 6,000, where there were originally but 50 people. The power now in use together with the additional amounts which will soon be developed and that in reserve for this one company alone, amounting to 550,000 continuous horsepower, represents practically 40 per cent of the full amount of continuous 24-hour water-power energy commercially available in the seven Southern States of the United States.

There is in North Carolina an experimental factory of 4,000 horsepower capacity employing the Paulding arc process. It is not yet brought to commercial operation.

However, the production of fertilizers by the arc process is relatively small compared with the production of fertilizers by the cyanamid process. The cyanamid industry, representing a present investment of approximately $30,000,000, is established in practically every country in Europe, there being three factories in Germany, two in Norway, two in Sweden, one in France, one in Switzerland, two in Italy, and one in Austria. There is one in Canada and one in Japan—not any in the United States. The total capacity represents an output of $15,000,000 per annum. The business is just at the threshold of its development and has only this moment passed from the experimental stage. The power required per unit of nitrogen produced is one-third to one-fourth of that required by the arc process. Notwithstanding this there is employed 200,000 continuous horsepower, and with one exception the works in every country are making extensions. The English company alone is contemplating the application of 1,000,000 continuous horsepower to the production of cyanamid and its derivaties, 600,000 of which has been secured in Norway and 400,000 in Iceland.

REQUIREMENTS OF THE INDUSTRY.

The fixation of atmospheric nitrogen may be expected later to give the world its nitrogen supply at one-half the price that it would otherwise command. The conservation of the soil fertility would be wholly inadequate to the needs of the world except that it included the use of nitrogenous fertilizers.

COMMUTING OF POWER INTO CROP PRODUCTION.

Experiments at the Rothamstead Agricultural Experimental Station in England, conducted now over a period of 60 successive years, prove that an amount of nitrogen equivalent to that produced in the cyanamid process by one continuous horsepower will increase wheat production by 150 bushels per year. This means that the application of a horsepower in the United States to the cyanamid industry will some day increase the food supply the equivalent in value of $150. The factory sales price of the quantity of nitrogen thus required would be practically one-half this amount, or about $75.

Therefore the question is important, upon what does the development and advance of the fixation of atmospheric nitrogen depend, at least as far as applies to the processes of known commercial practicability? Dr. Samuel Eyde, the pioneer of the arc process,

honored by his fellow countrymen as the creator of the new industrial Norway, says: "Our industry can not exist unless it can procure cheap water power." Neither can the cyanamid industry exist without cheap water power, although it is not so dependent in this respect as the arc process.

WATER POWERS OF THE SOUTH.

Both the arc and the cyanamid processes require not only a great amount of electrical energy, but what makes the demand especially difficult to meet is that the processes are continuous each minute of the day for every day of the year, thus requiring a continuous application of energy.

At the present time the largest use of fertilizers in the United States is in the Southern States, for cotton, citrus fruits, truck crops, and corn.

The great available water powers of the country within the permissible distance over which fertilizers can be transported to the farmer are in the South.

The neecssary water power is to be found in the Southern States on the rivers whose headwaters are in the Appalachian Mountains, not in the small streams nor near the headwaters of the rivers, but for the most part only at points on the great rivers, where there may be found combined the two natural advantages of a large minimum flow and an adequate fall in the bed of the stream within a limited distance. All these considerations point unerringly to the practical necessity, if the nitrogen industry is to be established on a broad scale in the United States with the maximum of advantage to the industry and the people, to placing nitrogen fertilizer factories at what is called the "fall line" of the streams issuing from the Southern Appalachians. The fall line marks in a general way the line where the streams pass from an older to a younger geologic formation. It marks the old shore line of the ancient inland sea of Paleozoic time and can be traced today north and south through central Tennessee, then, in a great half moon, curling symmetrically through central Alabama, near Sheffield and Florence, on the Tennessee River, south of Birmingham and near Wetumpka, on the Coosa, to the Georgia State line, near the city of Columbus, thence northeasterly across Georgia and the Carolinas, through Macon, Milledgeville, Augusta, Columbia, Camden, Welden on the Roanoke, Richmond on the James, and Washington on the Potomac. Note also in this connection that the fall line follows closely the center of gravity of population, industry, and activity, as well as for the most part practically bisecting the cultivable area of the Southern States.

It is particularly pertinent to note that where the fall line crosses all of the great navigable rivers of the South there is introduced invariably a section of shoals, rapids, or falls which constitue serious obstruction to navigation or limit it entirely and thereby establish the "head of navigation."

There is possibly another opportunity in this connection presented in the South, which, in the interest of the farmer, may prove more valuable than any other. It lies in the fact that practically the only commercially available phosphate deposits of the world occur in the Southern States, and for the most part close to the fall line. We are warranted in the belief that there will be perfected, and probably before long, so greatly an improved method of transforming phosphate rock into an agricultural fertilizer as to constitute a revolution in the character and quality of commercial fertilizers. With the present outlook this development is practicable only when carried out in conjunction with the fixation of atmospheric nitrogen, producing, together with potash (which may become a product of southern origin as well), the so-called complete fertilizer.

OBSTACLES.

There are two serious obstacles to the establishment of nitrogen factories in the United States at the points where economic considerations would otherwise place them. The first of these is the excessive cost per unit of continuous generated power where the development is by means of a massive dam stretched across a wide river and the available head upon the turbines is low and no greater than the height of the dam. Such are the conditions on the Coosa, the Tennessee, and other great Southern rivers.

The second obstacle is the attitude of a certain influential part of our people favoring governmental restrictions on the development of power on navigable streams, which in the past has influenced our Federal administration to giving these restrictions practical effect. These untoward conditions have prevented the nitrogen industry from entering the United States.

HISTORY OF EFFORT TO PLACE FACTORY IN UNITED STATES.

Knowledge essential to the exercise of well-balanced judgment applied to any problem and information requisite to a practical expression of that judgment can proceed only from actual experience and cases in point.

You have all heard of the so-called Coosa River bill. There was introduced in the second session, Sixty-second Congress, a bill strictly in accordance with the provisions of the general dam act of 1910, granting permission to the Alabama Power Co. to erect a dam

across the Coosa River at what is known as the proposed site of Lock 18, a few miles above Wetumpka. The following facts were fully revealed on the floor of Congress:

First. Coosa River rises in the mountains of northern Georgia and flows in a southwesterly direction through the entire length of a great and rich valley and empties into Mobile Bay. There would be an unbroken route of water transportation from northern Georgia through the heart of Alabama to the Gulf of Mexico, a distance of 863 miles, but for the shoals and rapids about midway of the river's length and occupying a distance of about 140 miles and a drop of 320 feet between Greensport and Wetumpka. The people of one of the country's richest valleys, with products peculiarly suitable for water transportation, are thus cut off from the sea. The volume of flow of these rapids is reported to be about as great as that of the Mississippi at St. Paul, a trifle less than three times that of the Hudson at Albany, and more than three times that of the Ohio River at Pittsburgh. Navigation has been established for many years on the upper waters of the Coosa River and for many years on the Alabama River, which is the modern name for the lower Coosa, from Montgomery to Mobile. Not so much as a canoe can pass between the upper and the lower river. Beginning as early as 1824 the State of Alabama and the National Government have had frequently before it for consideration the problem of establishing navigation over the central or shoal district of the river. The estimated cost of the necessary dams and locks is not less than $10,000,000 to $12,000,000, and so late as this past month the last of many adverse decisions have been received from the Engineer Corps of the United States Army against government improvement of this section solely because of the prohibitory cost.

Second. The Alabama Power Co. was already engaged in the investment of $10,000,000 in the establishment of a hydroelectric plant at the site of proposed Lock 12, on the Coosa, a short distance above Lock 18 site, permission for which was given by a bill from a former Congress, and for the transmission and distribution of the power throughout central Alabama.

Third. The purpose for which power was to be generated at the proposed new dam was for the manufacture of cyanamid, a contract having been made by the power company with the cyanamid interests, providing not only for this use of all the continuous power capable of development at Lock 18, but also for an additional amount to be generated on a neighboring tributary.

Fourth. The dam authorized at Lock 12 site and the proposed dam at Lock 18 site were almost identical structures designed and placed by the Engineer Corps of the United States Army as naviga-

tion structures, serving in that respect precisely the same purpose as if designed and located solely for navigation purposes. Thus private capital would contribute at each dam $1,500,000—together, $3,000,000—toward the $10,000,000 to $12,000,000 necessary for establishing through navigation on the Coosa River. It was the confident anticipation that additional dam sites near by would be developed shortly. This amount, it is important to note, taken at 6 per cent per annum is equivalent to a subscription on the part of private interests to the people of the United States of $6 per horsepower per annum, equivalent to a rental rate six times as great as the maximum rate seriously suggested, so far as we know, up to that time as a proper one for collection by the United States Government for the use of waterpower privileges even on public lands belonging to the Government. It is sixty times as much as the rate fixed in the Federal permit for power development on the Pend Oreille, issued July 29 of this year by the Secretaries of the Interior and Agriculture.

Fifth. The purpose of the power was to produce an agricultural fertilizer of a kind of which the neighboring States absorb 60 per cent of all that is used in the United States, and which, unless it were produced on the Coosa, would for the time being bar the factories of the industry from the United States. Four million dollars was available to the power company and the cyanamid interests for the establishment of the plant, and as a matter of fact the ultimate failure to receive the sought-for Federal permission resulted in adding to the Canadian cyanamid plant already in operation the productive capacity proposed for the Alabama plant, employing the funds intended for the Alabama plant as far as they were necessary for this purpose.

Sixth. The power company and the cyanamid company were promoted by five citizens of the South and one from the West, who as early as 1906 realized the joint value of certain water-power possibilities in the South and from the fixation of atmospheric nitrogen, and to the end of developing these possibilities subscribed $1,000,000, together with a few associates for experimenting with cyanamid on a commercial scale and the securing of water-power rights. Once embarked there was no hope of carrying the matter through to success, except to reduce to commercial practicability the many unsolved technical and commercial problems. To this end alone, first and last, the company expended approximately an additional $1,000,000. All efforts to interest American capital either in the development independently of the great water powers of Alabama or in conjunction with cyanamid or to develop the cyanamid industry independently of water power failed.

Recourse was had at last to an important English banking house which undertook directly the development of hydroelectric power on the Coosa River and its transmission and distribution for municipal and general purposes, and became investors in the securities of the cyanamid company sufficiently to develop it on a broad and adequate scale. The whole enterprise was the direct outgrowth of that pioneer spirit to which is universally given the credit for the development of this country. There was no question of a "water-power trust" or "big business," or anything else which might have constituted either a wise or a foolish reason for opposing the industry.

Seventh. American capital would not embark on an enterprise which involved the uncertain tenure of a revocable right with the powers of confiscation, such as the general dam act of 1910. English capital accepted that act and undertook the initial development in Alabama involving an expenditure of $10,000,000, viewing the general dam act as the sacred word of a sovereign Government that readiness to comply with the terms of that act in future developments, properly expressed to Congress, would be all that our Government could expect or with honor exact.

The attitude of the particular group of conservationists who held extreme views as to governmental regulations of water powers on navigable streams was wholly unfriendly to this project and succeeded in defeating it.

This raises the important question as to what type of citizens shall be chosen as the country's advisers in connection with the problem of water-power development on public lands and upon navigable streams. An active permanent faith in the general sordidness of all men of action, of those who do things and risk their fortunes and give years of toil in the development of natural resources, is the only sufficient explanation to my mind for ascribing unworthy, ulterior, and dangerous motives to every one in the United States who is engaged or endeavors to engage in the exploitation of water powers. This point of view attaches opprobrium to the very name of water-power people. They are associated in print with the undesirable class of citizens termed "thieves."

The development and application of water power to economic uses is one of the most highly organized and intricate specialties of modern times. No one approaches it successfully, either technically or commercially, except the experienced and highly trained specialist, and even under these conditions water powers are as a class the most unprofitable and disappointing of all large investments, and I except none. None of this, however, deters a large number of individuals relatively unfamiliar with the hydroelectric

art from completely banishing from their minds as entitled to a voice in the question of the relation of government to water powers those whose lives are given to the art.

Water-power people are entitled to the same consideration and confidence that is shown the physician and the medical profession generally in listening to their voice in the matter of sanitary improvements. I conceive it to be just as unreasonable to brand as a class those interested in the development of water powers with no ambition save that of a sordid and grasping character, than to say to all the medical profession that they shall bear no relation to sanitary science for the sole reason that any effective recommendation which will improve the health of the people can, forsooth, result only in inevitable loss of fees to the physician.

We properly concede to the strictly professional man a pride of cult and devotion to the highest ethics of his profession. But professions today are not limited to theology, law, and medicine, for just as great learning, just as great intelligence, no less specialization is to be found in any one of a dozen highly organized undertakings of modern times. No lawyer ever is moved by a stronger call to be true to the profound principles of justice evolved through time by great judicial minds; no physician is moved more strongly to eradicate those conditions which result in physical suffering than the call to the man with the pioneer spirit of modern times, be he promoter, engineer, organizer, or investor, to devote to useful human purposes to sweep and power of a stream, whether it be for irrigation, for water supply, or for power.

PARTIAL LIST OF UTILIZED WATER POWERS.

The following is a list by counties of the utilized water powers reproduced from Bulletin No. 7, with such additions as ca nbe made from information in hand at this date. The most of these powers are small, but they make a large aggregate, and they represent only an insignificant part of the power that is capable of development. *With each are given the name, póstoffice, stream—when known, industry, and horsepower in the order named.*

AUTAUGA COUNTY.

	Horse-Power.
Charity T. Carter,* Billingsley, Little Mulberry Creek, Flour and grist mill	10
Montgomery's Mill'* Prattville, Autauga Creek, Flour and grist mill	30
Public Grist Mill,* Billingsley, Little Mulberry Creek, Flour and grist	9
Parker's Mill,* Milton, Mulberry Creek, Flour and grist	20
Dawson's mill,* Netezen, Lumber and timber mill	20
Ellis's mill,* Jones Switch, Mulberry Creek, Lumber and timber mill	4
Long Leaf Yellow Pine sawmill,* Autaugaville, Swift Creek, Lumber and timber mill	15
Ray's sawmill,* Jones Switch, Mulberry Creek, Lumber and timber mill	10
Swift Creek Mill Co. (Swift Creek),* Autaugaville, Lumber and timber mill	70
Jones H. Herod,* Netezen, Lumber and timber mill	6
Prattville Cotton Mills and Banking Co. (Autauga Creek),* Prattville, Cotton goods	200
Continental Gin Co. (Autauga Creek),† Prattville, Cotton gin	
Prattville ice factory (Autauga Creek),‡ Prattville, Ice factory	
Doster ginnery (Autauga Creek),‡ Prattville, Cotton gin	
G. H. Roy,‡ Vine Hill (Mulberry Creek), Cotton gin	

BARBOUR COUNTY.*

Hagler's mill, Louisville, Flour and grist mill	17
Carpenter's mill, Louisville, Flour and grist mill	15

*From U. S. Census, 1900.

†The water power at Prattville was first developed about 1830, when it was used by a man named May to operate a small sawmill. About 1833 this water power and the adjacent lands were purchased by Mr. Daniel Pratt, who then erected a cotton-gin factory, which was driven by the water power. The dam at that time was about 8 feet high. A number of years after the purchase of this property by Mr. Pratt he increased the dam so that it now has a height of 16 feet, and is built of brick. At present it is used jointly by the Prattville Cotton Mills and Banking Company and the Continental Gin Company, the former using about 255 horsepower and the latter 100 horsepower. About half a mile below the dam above referred to is another dam affording about 8 feet head and owned by the M. E. Pratt estate. This power operates a gristmill, cotton ginnery, and ice factory, and the water wheel at that point has a rated capacity of 54 horsepower. About 1 mile above the dam of the Cotton Mill and Gin Company there was formerly another dam 12 feet high, which afforded power for a cotton mill. This mill, however, was burned a number of years ago, and the dam has been allowed to go to ruin. It would probably afford 200 horsepower, or possibly a little more, should it be rebuilt.

There is also a dam about 2 miles below Prattville, known as the Montgomery mill property. This dam is about 12 feet high and affords power for a gristmill and ginnery. Only a small portion of the available power is used. It could afford easily 250 horsepower, if the proper wheels were installed.

‡From report of probate judge.

Water powers in Alabama, by counties—Continued.

	Horse-Power.
Hoffman's mill, Clayton, Flour and grist mill	50
Hartman's mill, Clayton, Flour and grist mill	10
Zorn mills, Lodi, Flour and grist mill	8
William M. Wood, Bush, Flour and grist mill	12
Will Stewart, Whiteoak Springs, Flour and grist mill	12
Winn's mill, Clayton, Flour and grist mill	12
John White, Spivey, Flour and grist mill	10
Weston's mill, Louisville, Flour and grist mill	8
H. J. Turner, Whiteoak Springs, Flour and grist mill	10
Spencer's mill, Clayton, Flour and grist mill	10
Perkin's mill, Elamville, Flour and grist mill	12
Angus McSwain, Whiteoak Springs, Flour and grist mill	12
William Johnson, Clayton, Flour and grist mill	10
John M. Jenkins, Starhill, Flour and grist mill	10
Solomon's mills, Solomons Mills, Flour and grist mill	25
Danner mill, Elamville, Flour and grist mill	12
William H. Chambers, Oateston, Flour and grist mill	12
Wilson Deshazo, Cottonhill, Flour and grist mill	16

BIBB COUNTY.

Scottsville flour and grist mill,* Scottsville, Flour and grist mill	30
Palmetto flouring and grist mill,* Brierfield, Flour and grist mill	30
Williams's gristmill,* Blocton, Flour and grist mill	10
William S. Mathews,* Data, Flour and grist mill	8
Sixmile custom mill,* Sixmile, Flour and grist mill	15
Mayfield Bros.,* Mertz, Lumber and timber mill	29
Scottsville Wool Carder,† Scottsville, Woolen goods	20
J. M. Battle (Sixmile Creek),† Sixmile, Flour and grist mill	50
W. C. Trott (Sixmile Creek),† Sixmile, Cotton gin and grist mill	50
W. H. Thomas (Sixmile Creek),† Ashley, Lumber and grist mill	35
Dock Mahan (Mahans Creek),† Brierfield, Wool carder and grist mill	40
Bessemer Land and Improvement Co. (Schultz Creek),* Lopez, Wool carder, gristmill, and cotton gin	100
R. R. McCally (Hills Creek),* Blocton, Gin, lumber and grist	30
E. M. Timbro (Schultz Creek),* Centerville, Gristmill	30
F. H. James (Haysoppy, Centerville, Gristmill	20
A. L. Elam (Affonee Creek),* Affonee, Gristmill	15

NEW DEVELOPMENT.

George Blake's Dam, on Schultz Creek, leased by Centerville Light Co. Furnishes light and power to Centerville and Brent. Turbine capacity, about	175

BLOUNT COUNTY.†

Logan Snead, Snead, Flour and grist mill	10
E. B. Head, Gumspring, Flour and grist mill	16
E. R. Wood, Wynnville, Flour and grist mill	8
Hendrick's mill, Swansea, Flour and grist mill	30
Jones M. Burns, Clarence, Flour and grist mill	15
Wilson Adcock, Tidmore, Flour and grist mill	10
G. M. D. Tidwell & Sons, Tidwell, Flour and grist mill	20
Alldridge & Bro., Liberty, Flour and grist mill	10
Brittain's mill, Summit, Flour and grist mill	20
Rufus F. Wyatt, Bangor, Flour and grist mill	10

*From U. S. Census, 1900. †From report of probate judge.

Water powers in Alabama, by counties—Continued.

	Horse-Power.
Sam Mardis, Blountsville, Flour and grist mill	60
Jno. H. Donahoo & Geo. W. Darden, Rosa, Lumber and timber	20

BULLOCK COUNTY.

Brooks's mill, Mascotte, Flour and grist mill	6
Union Springs waste mill, Union Springs, Flour and grist mill	15
Chappell's gristmill, Union Springs, Flour and grist mill	10
D. H. Mason (McBrides Creek), Indian, Lumber, gin, and grist	20
Chas. Radford (Conecuh Creek),* Union Springs, Gristmill	10

BUTLER COUNTY.†

John W. Halso, Pigeoncreek, Flour and grist mill	10
Glen Graham, Pontus, Flour and grist mill	6
The Four-mile mill, Greenville, Flour and grist mill	10
The N. M. Rhodes Mill and Mercantile Co., Shell, Flour, grist, and lumber mill	50
Mrs. M. E. Crane, Monterey, Flour and grist mill	15
Rouse & Whiddon, Greenville, Flour and grist mill	50

CALHOUN COUNTY.

Joseph Francis* Cane Creek, Flour and grist mill	50
Richey's mill* Jacksonville, Flour and grist mill	20
Canada gristmill,* Womack, Flour and grist mill	16
Coldwater mills,* Coldwater, Flour and grist mill	20
Read's mill,* Reads, Flour and grist mill	60
Luther Barton,* Piedmont, Flour and grist mill	20
W. F. McCulley,* Oxford, Flour and grist mill	20
A. McCurdy,* Whiteplains, Flour and grist mill	34
Morris's gristmill,* Morrisville, Flour and grist mill	18
Nisbet's mill,* Jacksonville, Flour and grist mill	30
James A. Weatherly,* De Armanville, Flour and grist mill	8
Wood Milling Co.,* Ohatchee, Flour and grist mill	26
Davis & Henderson,* Piedmont, Flour and grist mill	24
Hendon's gristmill,* Ironcity, Flour and grist mill	10
Hughes's sawmill,* Oxford, Lumber and timber mill	28
F. M. Whiteside (Choccolocco Creek),† Whiteplains	25 or 30
Downing & Morris (Choccolocco Creek),† Choccolocco	50
J. T. De Arman (Choccollocco Creek),† Anniston	15
W. E. Mellon (Choccolocco Creek),† Oxford	40
Lee's mill (Choccolocco Creek),† Oxford	30
T. G. Slaughter (Choccolocco Creek),† Oxford	15
J. H. Savage (Terrapin Creek),† Anniston	20
J. H. Savage (Terrapin Creek),† Anniston	20
Frank Aderhold (Nances Creek),† Ladiga	20
John Ramagnand (Champion Creek),† Jacksonville	15
James Crook (Tallaseehatchee Creek),† Jacksonville	10
W. J. Edmondson (Tallaseehatchee Creek),† Anniston	30
W. A. Prickett (Tallaseehatchee Creek),† Alexandria	10
Beaty Estate (Tallaseehatchee Creek),† Alexandria	30
Peter Heifner (Tallaseehatchee Creek),† Alexandria	15
James Aderhold (Ohatchee Creek),† Reads	20
Pleas. Martin (Ohatchee Creek),† Peekshill	25
C. J. Wood (Ohatchee Creek),† Jacksonville	30
Wm. Thompson (Ohatchee Creek),† Peekshill	8

*From report of probate judge. †From U. S. Census, 1900

Water powers in Alabama, by counties—Continued.

	Horse-Power.
R. L. Treadway (Tallaseehatchee Creek),† Anniston	10
J. H. Francis (Tallaseehatchee Creek)†	25
R. H. Cobb (Tallaseehatchee Creek),† Anniston	20
G. W. S. Loyd (Cane Creek),† Peaceburg	10
Mrs. Loyd (Cane Creek),† Peaceburg, Gin	6
Morris Manufacturing Co. (Cane Creek),† Morrisville, Shops	30
E. G. Morris (Cane Creek),† Morrisville	30
P. H. Brothers (Cane Creek),† Zula	30
J. H. Francis (Cane Creek),†	50

CHAMBERS COUNTY.*

D. E. M. Smith, Barber, Flour and grist mill	24
Cumbee's gristmill, Stroud, Flour and grist mill	20
Thomas H. Fuller, Lafayette, Flour and grist mill	10
R. T. Humphrey, West Point, Ga., Flour and grist mill	42
J. T. Hudson, Hickoryflat, Flour and grist mill	4
Wyche Robinson, Lafayette, Flour and grist mill	16
Stephens's mill, Driver, Flour and grist mill	8
Ripville mills, Wise, Flour and grist mill	20
Charles F. Higgins, Finley, Flour and grist mill	20
J. E. Dixon, Lafayette, Flour and grist mill	10
Ratchford & Tucker, Lafayette, Flour and grist mill	10
Benjamin F. Knight, Lafayette, Flour and grist mill	10
Wooddy & Beall, Moorefield, Flour and grist mill	6
Leverett & Abernathy's, Milltown, Flour and grist mill	4
G. L. Leverett, Lafayette, Flour and grist mill	16
Westpoint Manufacturing Co., Westpoint, Cotton goods	1,100

CHEROKEE COUNTY.

Shamblin & Toles mill,* Broomtown, Flour and grist mill	8
Chandler & Stinson,* Center, Flour and grist mill	20
Shamblin & Toles mill,* Broomtown, Flour and grist mill	20
J. A. Lumpkin,* Forney, Flour and grist mill	13
Hurley's mill,* Hurley, Flour and grist mill	12
Tyre G. Craig,* Grover, Flour and grist mill	12
Rush mill,* Lawrence, Flour and grist mill	10
E. W. Ragdale,* Spring Garden, Flour and grist mill	30
W. F. Timmerman,* Round Mountain, Flour and grist mill	8
M. E. Cohia,* Cedar Bluff, Flour and grist mill	24
M. J. Abernathy,* Pleasant Gap, Lumber and timber mill	15
Hurricane Creek Manufacturing and Mining Co.,* Spring Garden, Cotton goods	65
W. A. Stinson (Terrapin Creek),† Center, Gin, flour and grist mill	60
J. J. Scroggin (Terrapin Creek),† Coloma, Gin, flour, and grist mill	60
T. F. Stewart (Terrapin Creek),† Spring Garden, Flour and grist mill	60
J. M. Adderhold (Mill Creek),† Piedmont, Flour, grist, and gin mill	40
M. L. Braswell (Hurricane Creek),† Pleasant Gap, Flour and grist mill	40
B. F. Newberry (Yellow Creek),† Round Mountain, Flour, grist, and gin mill	40
E. Cobia (Chattooga River),† Cedar Bluff, Flour, grist, and gin mill	60
R. A. Russell & Co. (Chattooga River),† Gaylesville, Flour, grist, and gin mill	60
W. F. Henderson (Mill Creek),† Fullerton, Flour, grist, and gin mill	40
Rush & Rinehart (Chattooga River),† Fullerton, Flour, grist and gin mill	60

*From U. S. Census, 1900. †From report of L. J. Morris.

Water powers in Alabama, by counties—Continued.

	Horse-Power.
J. G. Toles (Mill Creek),† Broomtown, Grist and gin mill	40
Elliott Bros. (North Spring Creek),† Grassland, Grist and gin mill	40
J. T. Webb & Bros. (Spring Creek),† Hurley, Grist and gin mill	40
J. D. Jordan (South Spring Creek),† Noah, Grist and gin mill	20

CHILTON COUNTY.*

James Dorming, Jemison, Flour and grist mill	10
Mahan's mill, Clanton, Flour and grist mill	20
W. W. Sansome, Adams, Flour and grist mill	12
Honeycutt mill (Mahans Creek), Jemison, Flour, grist, lumber, and timber mill	20

NEW DEVELOPMENT.

Lock 12, Alabama Power Co., Coosa River, hydroelectric plant, utilized 70,000 H. P., available	105,000

CHOCTAW COUNTY.*

Pink Blackwell, Hinton, Flour and grist mill	12
Aquilla mills, Aquilla, Llumber and timber mill	16

CLARKE COUNTY.*

Gate's mill, Vashti, Flour and grist mill	30
Fleming's gristmill, Nealton, Flour and grist mill	10
Dacy's mill, Whatley, Flour and grist mill	5

CLAY COUNTY.*

Henry F. Smedley, Melloy Valley, Flour and grist mill	15
Hezekiah Ingram, Hatchett Creek, Flour and grist mill	10
Allen P. Jenkins, Delta, Flour and grist mill	14
Knight's mill, Wesobulga, Flour and grist mill	14
F. M. Munroe, Millerville, Flour and grist mill	40
John R. Gilbert, Pinckneyville, Flour and grist mill	8
Hodnett & Co., Hat, Flour and grist mill	10
Moses R. Watts, Dean, Flour and grist mill	6
Thomas J. Watts, Shinbone, Flour and grist mill	8
Bishop, Carpenter & Co., Cherry, Flour and grist mill	10
Cockrell & Mitchell, Goldburg, Flour and grist mill	14
McRairie, Gladney & Co., Cherry, Flour and grist mill	20
Virginia Whellen, Coleta, Flour and grist mill	6
Stephens & East, Delta, Flour and grist mill	4
Deberry & Griffin, Flatrock, Flour and grist mill	15
Child's mill, Swann, Flour and grist mill	5
James B. Brown, Pinckneyville, Flour and grist mill	6
James J. Bachus, Fishhead, Flour and grist mill	24
Brooks & Handley, Hatchett Creek, Flour and grist mill	8
Columbus Bell, Lineville, Llumber and timber mill	10
J. C. Kennedy, Fishhead, Lumber and timber mill	14
William M. Patterson, Meadow, Lumber and timber mill	30
Ward & Ford, Lineville, Lumber and timber mill	15

CLEBURNE COUNTY.*

J. T. & E. W. Beason, Beasons Mill, Flour and grist mill	10
W. M. Evans, Edwardsville, Flour and grist mill	20

*From U. S. Census, 1900.

Water powers in Alabama, by counties—Continued.

	Horse-Power.
Robert mill, Oaklevel, Flour and grist mill	16
Teague & Co., Eudora, Flour and grist mill	13
H. F. Alsabrook, Borden Springs, Flour and grist mill	30
Buttram's mill, Bucham, Flour and grist mill	20
John A. Brown, Bell Mills, Flour and grist mill	16
John I. Burgess, Edwardsville, Flour and grist mill	20
Wade H. Barnes, Muscadine, Flour and grist mill	4
J. W. Connor, Chulafinnee, Flour and grist mill	6
Lyon & Killebrue, Flour and grist mill	34
W. G. Milligan, Oakfuskee, Flour and grist mill	8
James McMahan, Edwardsville, Flour and grist mill	12
E. W. Pitchford, Oaklevel, Flour and grist mill	15
William J. Thrash, Oakfuskee, Flour and grist mill	6
Wade H. Barnes, Muscadine, Flour and grist mill	30
W. H. Tumlin & D. S. Baber, Al, Flour and grist mill	16

COFFEE COUNTY.*

Levy Wise, Ino, Flour and grist mill	5
Bell mill, Dot, Flour and grist mill	8
Lenora F. Hildreth, Enterprise, Flour and grist mill	17
Harper flour mills, Brockton, flour and grist mill	4
F. M. Prestwood, Fresco, Flour and grist mill	20
McIntosh mill, Eta, Flour and grist mill	8
Wise's lower mill, Elba, Flour and grist mill	12
Wise's upper mill, Elba, Flour and grist mill	10
Buck & Co., Penn, Lumber and timber mill	50

NEW DEVELOPMENT.

Pea River hydroelectric plant, near Elba, Electricity for light and power to Troy and Elba, turpine capacity 2,470

This plant is four miles below Elba, and there are some small power plants above the city. (E. B. Kay.)

COLBERT COUNTY.*

George Martin, Allsboro, Flour and grist mill	8
James Burns, Mand, Flour and grist mill	4
Tuscumbia mill, Tuscumbia, Flour and grist mill	40
C. C. Hester, Tuscumbia, Flour and grist mill	40
Chambee's gristmill, Tuscumbia, Flour and grist mill	8
Dillard's mills, Russellville, Lumber and timber	12
Steenson's mills, Sheffield, Lumber and timber	30

CONECUH COUNTY.*

George Stenson, Bonnette, Flour and grist mill	12
James B. Pate, Brooklyn, Flour and grist mill	5
William M. Robinson, Brooklyn, Flour and grist mill	5
Jimson C. Cox, Gem, Flour and grist mill	5
John N. Varner & Chas. M. Varner, Herbert, Flour and grist mill	10
James E. Wilson, Mount Union, Flour and grist mill	20
Ransom H. Finley, Zern, Flour and grist mill	8
G. G. Broker, Bowles, Lumber and timber mill	10
Cary & Johnston, Brooklyn, Lumber and timber mill	15
T. N. Piggott, Gravella, Lumber and timber mill	40
Robinson Bros., Brooklyn, Lumber and timber mill	30

*From U. S. Census, 1900.

Water powers in Alabama, by counties—Continued.

	Horse-Power.
H. J. Robinson, Burnt Corn, Lumber and timber mill	40
Henry Wills, Finklet, Lumber and timber mill	30

COOSA COUNTY.*

Miller's mill, Bentleyville, Flour and grist mill	20
Nolen's mill, Darden, Flour and grist mill	15
J. T. M. Hodnett & O. P. Hodnett, Equality, Flour and grist mill	12
W. N. Neighbors, Goodwater, Flour and grist mill	23
Smith's mill, Nixburg, Flour and grist mill	10
George P. Waits, Rockford, Flour and grist mill	8
Crawford mill, Rockford, Flour and grist mill	4
Lawson grist and sawmill, Rockford, Lumber and timber mill	36

NEW DEVELOPMENTS.

Sylacauga municipal hydroelectric plant, McEwen mill site on Hatchett Creek, 5 miles from Rockford, light and power to the city of Sylacauga, turbine capacity	375
Goodwater municipal hydroelectric plant on Hatchett Creek, 4 miles southwest of Goodwater, light and power to Goodwater, utilized turbine capacity	100

COVINGTON COUNTY.*

A. J. Fletcher, Andalusia, Flour and grist mill	10
Uatu gristmill, Andalusia, Flour and grist mill	10
William Sharp, Ealums, Flour and grist mill	10
Davis B. Gantt, Gantt, Flour and grist mill	12
C. E. Rawls, Gantt, Flour and grist mill	10
Dorsey's mill, Glasiasko, Flour and grist mill	10
James Aplin, Green Bay, Flour and grist mill	20
William Watkins, Liberty Hill, Flour and grist mill	8
Kearsey's mill, Redlevel, Flour and grist mill	5
Ephram F. Lassiter, Rosehill, Flour and grist mill	10
Thomas sawmill, Redlevel, lumber and timber mill	25
Simmons mill, Beck, Lumber and timber mill	40
J. A. Prestwood, Jr., Andalusia, Lumber and timber mill	40
George W. Lee, Rat, Lumber and timber mill	20
Buck Creek mill, River Falls, Lumber and timber mill	80
J. F. Guthrie, Veracruz, Lumber and timber mill	25
Gunter's mill, Andalusia, Lumber and timber mill	40
Gunter's sawmill, Gantt, Lumber and timber mill	15
Gantt's mill, River Falls, Lumber and timber mill	70
Pollard Gantt, Searight, lumber and timber mill	35
Davis B. Gantt, Gantt, lumber and timber mill	40
N. B. Dixon, Mason, Lumber and timber mill	60
Bartlett & Barker, Lumber and timber mill	60

CRENSHAW COUNTY.*

E. P. Lasseter, Bullock, Flour and grist mill	8
G. B. Morgan, Bullock, Flour and grist mill	15
Folmar's mill, Goshen, Flour and grist mill	8
N. Skipper, Honoraville, Flour and grist mill	10
Daniel & Co., Lapine, Flour and grist mill	30
John S. Marsh, Rutledge, Flour and grist mill	20
G. B. Sasser, Luverne, Flour and grist mill	15

*From U. S. Census, 1900.

Water powers in Alabama, by counties—Continued.

	Horse-Power.
CULLMAN COUNTY.*	
Joseph W. Hyatt, Baileyton, Flour and grist mill	10
Miles Humphries, Baileyton, Flour and grist mill	4
D. H. Laney, Battleground, Flour and grist mill	6
Robert J. Waldrop, Cranehill, Flour and grist mill	20
Andrew J. Miller, Summit, Flour and grist mill	6
DALE COUNTY.*	
Archer McCall, Candy, Flour and grist mill	10
Floyd mill, Dothan, Flour and grist mill	10
Lewis mill, Clopton, Flour and grist mill	15
Murphy mill, Dothan, Flour and grist mill	5
Maunds corn mill, Ewells, Flour and grist mill	10
Pope's mill, Grimes, Flour and grist mill	60
Charles Thrower, Kleg, Flour and grist mill	16
Daniel McSwean, Ozark, Flour and grist mill	20
Preston's mill, Peach, Flour and grist mill	20
The Kelley gristmill, Pinckard, Flour and grist mill	150
Atkinson's sawmill, Newton, Lumber and timber mill	16
J. F. Bell, Daleville, Lumber and timber mill	22
DALLAS COUNTY.*	
Calhoun's mill, Carlowville, Flour and grist mill	10
Ivey & Williams, Morrowville, Flour and grist mill	8
DEKALB COUNTY.	
L. D. Wooten,* Blake, Flour and grist mill	8
J. D. Hall,* Chavies, Flour and grist mill	10
J. S. Ward,* Chumley, Flour and grist mill	12
Kean & Warren,* Cordell, Flour and grist mill	20
Swindell's mill,* Cotnam, Flour and grist mill	12
Griffin's mill,* Cotnam, Flour and grist mill	12
Emeline Clayton,* Crossville, Flour and grist mill	6
Swader's mill,* DeKalb, Flour and grist mill	15
James Clark,* Eula, Flour and grist mill	15
David J. Harper,* Floy, Flour and grist mill	3
Elrod's gristmill,* Floy, Flour and grist mill	4
Davis mill,* Fort Payne, Flour and grist mill	16
Thomas F. Everett,* Luna, Flour and grist mill	8
Elrod's mill,* Geraldine, Flour and grist mill	30
Pruitt's mill,* Skirum, Flour and grist mill	12
Lebanon flour and grist mill,* Lebanon, Flour and grist mill	36
Robert F. Ellison,* Mentone, Flour and grist mill	25
Ellic Ellsworth,* Ophir, Flour and grist mill	6
Warren's gristmill,* Portersville, Flour and grist mill	12
John F. Williams,* Rains, Flour and grist mill	8
Edward W. Williams,* Rains, Flour and grist mill	6
McGee's mill,* Sandrock, Flour and grist mill	5
Charles G. Matheny,* Sauty Mills, Flour and grist mill	20
Dixie Mills,* Sulphur Springs, Flour and grist mill	10
Phillips's mill,* Valleyhead, Flour and grist mill	4
The Roberts Mill Co.,* Collinsville, Flour and grist mill	25
W. E. Brown & Son,* Sulphur Springs, Lumber and timber mill	15

*From U. S. Census, 1900.

Water powers in Alabama, by counties—Continued.

	Horse-Power.
James M. Durham,* Chavies, Lumber and timber mill	16
William C. Hill & Co.,* Blanche, Lumber and timber mill	40
D. D. Hughes,* Hughes, Lumber and timber mill	15
Ward, Pickens & Co.,* Dawson, Lumber and timber mill	15
John A. Davis (Wills Creek),† Fort Payne, Grist mill and gin	
M. S. Brown and W. C. Thomas (Lookout Creek),† Sulphur Springs, Flour mill	
D. D. Hughes (Wills Creek),† Hughes, Flour and grist mill	
P. M. Frazier (Wills Creek),† Lebanon, Flour and grist mill	
S. D. Warren (Wills Creek),† Lebanon, Flour and grist mill	
Grif. Elrod (Town Creek),† South Hill, Flour and grist mill	
Durham & Co. (Town Creek),† Chavies, Flour, grist, and saw mill	

ELMORE COUNTY.*

E. & H. T. Andrews, Channahatchee, Flour and grist mill	25
Benjamin Spigener, Elmore, Flour and grist mill	5
Sykes mill, Sykes Mills, Flour and grist mill	16
John C. Birt (Lancaster old mill), Tallassee, Flour and grist mill	24
Freeman's gristmill, Tallassee, Flour and grist mill	5
J. J. Benson, Kowaliga, Lumber and timber mill	20
J. T. Rogers, Spigners, Lumber and timber mill	36
Tallassee Falls Manufacturing Co. (Tallapoosa River),‡ Tallassee, Cotton and woolen goods	8,900
Montgomery Power Co. (Tallapoosa River), Tallassee, Electric transmission to Montgomery, Ala.	5,600

NEW DEVELOPMENT.

Speigner Power Plant, on Mortar Creek, built by the State, light and power to operate the pumping station, cotton gins, grist and cotton mills of the State Convict Department. (For details see chapter on New Hydro-Electric Plants on Small Streams.)

ESCAMBIA COUNTY.*

Bradley mill, Flour and grist mill	10
S. S. Overstreet, Roberts, Flour and grist mill	20
James F. Douglas, Mason, Lumber and timber	25

ETOWAH COUNTY.

Wesson mills,* Attalla, Flour and grist mill	25
Cox & Bro.,* Avery, Flour and grist mill	6
B. H. Rogers,* Etowahton, Flour and grist mill	40
T. G. Ewing,* Ewings, Flour and grist mill	60
John C. Rollins,* Fenton, Flour and grist mill	8
Reese mill,* Hill, Flour and grist mill	10
John H. Helms,* Ballplay, Flour and grist mill	6
Ford & Sibert's mill,* Hokesbluff, Flour and grist mill	30
Morgan & Cochran,* Keener, Flour and grist mill	8
W. J. Harris,* Nix, Flour and grist mill	12
John B. Burns,* Seaborn, Flour and grist mill	8
A. B. Stephens,* Seaborn, Flour and grist mill	8

*From U. S. Census, 1900.
†From report of probate judge.
‡This is the same company that is now organized under the name of the Mount Vernon-Woodberry Cotton Duck Company, with office at Montgomery, Ala.

Water powers in Alabama, by counties—Continued.

	Horse-Power.
W. H Cobb,* Steels Depot, Flour and grist mill	20
P. C. Turner,* Walnutgrove, Flour and grist mill	30
P. C. Turner,* Walnutgrove, Woolen goods	13
W. M. Brothers & Son,* Gallant, Woolen goods	8
Gadsden Times-News,* Gadsden, Printing and publishing	4
J. M. Morague (Wills Creek),† Gadsden, Gristmill	100
Wm. McClendon (Wills Creek),† Attalla, Gristmill	40
—— Griffith (Wills Creek),† Keener, Gristmill	35
Bob Rigers (Canoe Creek),† Gadsden, Gristmill	75
Tow Ewing (Cane Creek),† Gadsden, Gristmill	40

FAYETTE COUNTY.

Rodolphus Cotton,* Bankston, Flour and grist mill	20
D. G. Hester,* Covin, Flour and grist mill	12
John W. Anthony,* Glenallen, Flour and grist mill	30
Landon Miles,* Hester, Flour and grist mill	13
Bishop Emick,* Rena, Lumber and timber mill	40
Phillip N. Fortenberry,* Bankston, Lumber and timber mill	8
W. L. Caine (Sipsey River),† Fayette, Saw and gristmill	40
T. E. Newton & Bro. (Sipsey River),† Fayette, Saw and gristmill	40
Licurgas Ray (Luxapallila Creek),† Montcalm, Saw and gristmill	30
John Barnes (Luxapallila Creek),† Covin, Gin and grist mill	30
E. Bishop (Luxapallila Creek),* Rainy, Saw, gin and grist mill	30
John Williams (Luxapallila Creek),† Covin, Gin and grist mill	30
Washington Hubbert (Shirley Creek),* Gin and grist mill	10
Gilpin & Jones (Shirley Creek),* Saw, gin, and grist mill	16
Jones & Jones (Shirley Creek),* Hugent, Saw, gin, and grist mill	20
P. N. Fortenberry (Davis Creek),* Bankston, Saw, gin and grist mill	8
G. H. White (Davis Creek),* Davis Creek, Saw, gin and grist mill	16
J. W. Blackburn (Davis Creek),* Davis Creek, Saw, gin, and grist mill	18
M. I. Barnette (Davis Creek),* Ridge, Saw, gin, and grist mill	20
Dolphus Cotton (Clear Creek),* Bankston, Saw, gin, and grist mill	16
M. Miller (Clear Creek),* Bankston, Saw, gin, and grist mill	
John G. Kizer (North River), Berry station, Saw, gin, and grist mill	40
Marshall Jones (Bear Creek),* Bear, Saw, gin, and grist mill	20
R. G. Walker (Bear Creek),* Bear, Saw, gin, and grist mill	24
Landon Miles (Stewart Creek), Hester, Gristmill	12
J. T. McCaleb (Mountain Creek),* Newriver, Gristmill	18
W. A. Ayers (Beaver Creek),* Fayette, Gin and grist mill	12
G. W. Gray (Boxes Creek),* Stough, Gristmill	16
Miles Whitson (Clear Creek),* Handy, Gristmill	12
Bud Wade (Hollingsworth Creek),* Newriver, Gristmill	12

FRANKLIN COUNTY.†

Helm's mill, Belgreen, Flour and grist mill	6
M. J. Height, Baggett, Flour and grist mill	10
James McNair, Kirby, Flour and grist mill	20
Andrew Posey, Igoburg, Flour and grist mill	24
Thomas Watson, Phil Campbell, Flour and grist mill	20
S. T. Bonds, Pleasant Site, Flour and grist mill	80
Jes. S. Scott, Russellville, Flour and grist mill	10
Sparks mill, Underwood, Flour and grist mill	10
John T. McAlister, Phil Campbell, Lumber and timber mill	10

*From U. S. Census, 1900. †From report of probate judge.

Water powers in Alabama, by counties—Continued.

GENEVA COUNTY.*

	Horse-Power.
Avant's mill, Geneva, Flour and grist mill	15
Lowry's mill, Geneva, Flour and grist mill	10
Bell's mill, Fadette, Flour and grist mill	15
W. J. Keith and R. Y. Daniels, Geneva, Flour and grist mill	15
Clark's gristmill, Highnote, Flour and grist mill	4
Underwood's gristmill, Sanders, Flour and grist mill	20
Condry's gristmill, Whitaker, Flour and grist mill	15
John T. Coleman, Geneva, Lumber and timber mill	30
Clark Bros. & Co., Wicksburg, Lumber and timber mill	10
Wilson Deshoga, Dundee, Lumber and timber	15
Nathan Hall, Dotham, Lumber and timber	20

HALE COUNTY.

William Steward,* Fivemile, Flour and grist mill	8
William A. Avery (Fivemile Creek),* Fivemile, Flour and grist mill	10
J. H. Payne & Co.,* Ingram, Flour and grist mill	10
M. M. Avery,* Havana, Flour and grist mill	15
Pickens mill,* Greensboro, Lumber and timber mill	15
Greensboro Carriage and Wagon Shops,* Greensboro, Carriages and wagons	6
Richardson's mills (Fivemile Creek),† Fivemile, Grist mill and gin	20
J. H. Payne's mill (Fivemile Creek),† Havana, Grist mill and gin	20
Avery's mill (Fivemile Creek),† Havana, Grist mill and gin	25
J. A. Stephenson (Prairie Creek),† Newbern, Grist mill and gin	20
Irwin & Martin (Big Creek),† Greensboro, Grist mill and gin	25

HENRY COUNTY.*

Kennedy's mill, Shorterville, Flour and grist mill	8
Joshua A. Hart, Granger, Flour and grist mill	15
Jeffcoat mill, Gordon, Flour and grist mill	8
Blacksheer & Saunders, Haleburg, Flour and grist mill	25
Cumming's mill, Bush, Flour and grist mill	20
Joe Baker, Headland, Flour and grist mill	27
Badiford gristmill, Little Rock, Flour and grist mill	15
John L. Smith, Ashford, Flour and grist mill	13
Mark Shelley, Balkum, Flour and grist mill	6
Singleterry's water mill, Kinsey, Lumber and timber	27
J. P. Williams & Co., Columbia, Lumber and timber	25

JACKSON COUNTY.*

Moody's flouring mill, Kyles, Flour and grist mill	40
George W. Brown, Kosh, Flour and grist mill	8
J. F. Bell, Maxwell, Flour and grist mill	4
Coffey's mill, Scottsboro, Flour and grist mill	8
Gross mill, Parks Store, Flour and grist mill	10
Hackworth's mills, Boliver, Flour and grist mill	8
John S. Henegar, Rosalie, Flour and grist mill	20
Bort Harrison, Section, Flour and grist mill	6
W. A. Howell, Hollytree, Flour and grist mill	5
Mathew's gristmill, Carns, Flour and grist mill	10
Page's mill, Woodville, Flour and grist mill	6

*From U. S. Census, 1900. †From report of probate judge.

Water powers in Alabama, by counties—Continued.

	Horse-Power.
Paint Rock Milling Co., Paintrock, Flour and grist mill	8
Reid & Prince, Estillfork, Flour and grist mill	20
David H. Starkey, Kosh, Flour and grist mill	8
Shork mills, Hollywood, Flour and grist mill	60
Cagle mill, Oakley, Flour and grist mill	12
John Thomas, Pisgah, Flour and grist mill	20
Martin Walker, Trenton, Flour and grist mill	40
James P. Williams, Trenton, Flour and grist mill	20
John V. Wheeler, Pisgah, Flour and grist mill	20
Charles W. Brown, Glenzaida, Lumber and timber mill	25
J. N. Gonce, Anderson, Lumber and timber mill	20
Melton Morris, Daugherty, Lumber and timber mill	12
David M. Starkey, Kosh, Lumber and timber mill	20
Tomon shingle mill, Culver, Lumber and timber mill	10

JEFFERSON COUNTY.*

J. M. Landrum, Pinson, Flour and grist mill	20
John Lowery mill, Gary, Flour and grist mill	12
Hendon's corn mill, Trussville, Flour and grist mill	10
Posey's mill, Morris, Flour and grist mill	20
James W. Raney, Ezra, Flour and grist mill	35
William B. Rogers, Toadvine, Flour and grist mill	32
G. W. Underwood, Argo, Flour and grist mill	15
William J. Wedgworth, Cardiff, Flour and grist mill	10
W. W. Woodruff, Adamsville, Flour and grist mill	8
W. M. Self, Oneonto, Flour and grist mill	15
William M. Phillip, Greene, Flour and grist mill	40
Morris's mill, Ensley, Flour and grist mill	10
Hurst & Johnson, Pinson, Lumber and timber mill	18
James W. Raney, Ezra, Woolen goods	35

LAMAR COUNTY.

John H. Cantrell,* Pharos, Flour and grist mill	15
Claborn E. Carter,* Detroit, Flour and grist mil	12
Kirk's mill (Yellow Creek,* Sizemore, Flour and grist mill	8
Mote's mill (Beaver Creek,* Guin, Flour and grist mill	6
John T. Moore (Yellow Creek),* Vernon, Flour and grist mill	35
W. H. Miller (Luxapallila Creek),* Millport, Flour and grist mill	20
Stanford mills,* Detroit, Flour and grist mill	12
S. B. Thomas,* Arcola, Flour and grist mill	10
Lafayette J. Hayes,* Molloy, Lumber and timber mill	15
Hiram Hollis.* Vernon, Lumber and timber mill	35
Dr. Wm. H. Kennedy,* Kennedy, Lumber and timber mill	50
S. B. Thomas,* Arcola, Lumber and timber mill	15
J. O. Kennedy,† Kennedy, Mill and gin	
J. W. Thomas, Jr. (Mills Creek),† Alfred, Gin, saw, and grist mill	
W. M. Thomas (Mills Creek),† Alfred, Gin, saw, and grist mill	
Osborn & Hill (Yellow Creek),† Blowhorn, Gin, saw, and grist mill	
D. M. Holjis (Beaver Creek),† Beaverton, Gin, saw, and grist mill	
B. G. Boman (Yellow Creek),* Vernon, Gin, saw, and grist mill	
A. A. Mathews (Yellow Creek),* Arcola, Gin, saw and grist mill	
W. L. Morton (Yellow Creek),* Vernon, Gin, saw, and grist mill	
Penning Bros.,* Baxter, Gin, saw, and grist mill	

*From U. S. Census, 1900. †From report of probate judge.

Water powers in Alabama, by counties—Continued.

LAUDERDALE COUNTY.†

	Horse-Power.
William M. Thornton, Rogersville, Flour and grist mill	20
James A. Bevis, Threet, Flour and grist mill	8
Jessie J. Bevis, Kendell, Flour and grist mill	6
George M. Bretherick, Hines, Flour and grist mill	24
Isa B. Eastep, Eastep, Flour and grist mill	8
Ingram Brothers, Anderson, Flour and grist mill	8
Thomas D. Pruitt, Pruitton, Flour and grist mill	24
Sharpe's mill, Florence, Flour and grist mill	40
Nancy Williams, Lexington, Flour and grist mill	20
H, N. Call, Reserve, Flour and grist mill	18
Chandler & Chittam, Oliver, Flour and grist mill	20

LAWRENCE COUNTY.

Burrell & Casteel,† Progress, Flour and grist mill	10
George's mill,† Leighton, Flour and grist mill	18
Jones's estate,† Kinlock, Flour and grist mill	10
Kerby's mill,† Avoca, Flour and grist mill	16
Thomas, Oliver,† Hatton, Flour and grist mill	16
John S. Stephenson & Co.,† Kinlock, Flour and grist mill	27
Wesley L. Stover,† Crow, Flour and grist mill	15
Terry & Terry,† Courtland, Flour and grist mill	20
Wallace mill,† Avoca, Flour and grist mill	10
W. M. Willingham,† Camp Spring, Lumber and timber mill	1
H. C. McClannaher (Town Creek),* Mount Hope, Gristmill	
John S. Stephenson (Sipsey River),* Moulton, Flour and gristmill	
Ben F. Masterson (Nances Creek),* Moulton, Gristmill	
W. G. Hamilton (Nances Creek),* Pitt, Gristmill	
J. M. Key (Bushey Creek),* Pool, Gristmill	
W. L. Stover (Flint Creek),* Oakville, Flour and grist mill	
B. A. Casteel (Flint Creek), Sewickley, Flour and grist mill	

LEE COUNTY.

Shelton's mill,† Opelika, Flour and grist mill	40
Floyd mill,† Opelika, Flour and grist mill	10
George W. McKinnon,† Yale, Flour and grist mill	24
Vaugh mill,† Loachapoka, Flour and grist mill	20
N. G. Macon (Reed Creek),† Loachapoka, Flour and grist mill	30
W. O. Moore,† Auburn, Flour and grist mill	40
W. K. Meadows (Halawochee Creek),† Hattie, Flour and grist mill	36
James Crosby,† Osanippa, Flour and grist mill	15
Benjamin F. Stripling'† Yale, Lumber and timber	20
W. W. Wright (Chewacla Creek), Auburn, Not in use now	
W. W. Wright & Geo. P. Harrison (Saugahatchee Creek),* Opelika	
H. J. Spratling (Frazer Creek),* Opelika, Gristmill	25
B. F. Meadows (Halawochee Creek),* Opelika, Gristmill	40

LIMESTONE COUNTY.

Weatherford Bros.,† Elkmont, Flour and grist mill	6
Carter's mill,† Athens, Flour and grist mill	16
Dupree & Stepp,† Mount Rozell, Flour and grist mill	25
Haye's gristmill,† Mooresville, Flour and grist mill	15
T. M. Holmes,† Elkmont, Flour and grist mill	12

*From U. S. Census, 1900. †From report of probate judge.

Water powers in Alabama, by counties—Continued.

	Horse-Power.
John M. Head,† Pettusville, Flour and grist mill	8
Nancy Haney,† Legg, Flour and grist mill	20
Edward G. Hampleton,† Goodsprings, Flour and grist mill	15
Thomas D. Hastings,† Elkmont, Flour and grist mill	5
James L. Lamar,† Goodsprings, Flour and grist mill	8
Eugene Parham (Piney Creek),† Athens, Flour and grist mill	8
M. A. Phillips,* Shoalford, Flour and grist mill	12
Ripley's mill,* Ripley, Flour and grist mill	15
George Vassar,* Lax, Flour and grist mill	8
Witty's Mill (Birds Branch),* Athens, Flour and grist mill	15
William J. Woodfin,* Pettusville, Flour and grist mill	15
Pioneer mill,* Mount Rozell, Flour and grist mill	20
A. P. Andrews,* Elkmont, Flour and grist mill	8
William N. Webb,* Elkriver Mills, Flour and grist mill	12
Baker's mill,* Elkriver Mills, Flour and grist mill	8
Allison Miller,* Rowland, Flour and grist mill	10
Grisham Bros.,* Elkriver Mills, Lumber and timber	40
Grisham Bros.,* Elkriver Mills, Carriages and wagons	40
L. C. Hightower (Big Creek),† Elkriver Mills, Saw, flour and grist mill	
Wm. Bailey (Big Creek),† Quidnunc, Flour and grist mill	
J. W. Carter (Big Creek),† O'Neal, Gin, flour, and grist mill	
M. J. Witty (Birds Branch),† Athens, Flour and grist mill	
J. C. Vaughn (Sulhpur Creek),† Elkmont, Gin, flour, and grist mill	
R. B. Malone (Sluhprus Creek),† Athens, Gin, flour and grist mill	
Wm. Woodfin (Ragsdale Creek),† Elkmont, Gin, flour and grist mill	
J. W. Carter (Panther Creek),† Carter, Gin, flour and grist mill	
John Carroll (Leslie Creek),† Centerhill, Gin, flour and grist mill	
Wm. Davidson (Limestone Creek),† Lax, Gin, flour and grist mill	
R. M. Clem (Piney Creek),† Fairmount, Gin, flour and grist mill	
Eugene Parkam (Piney Creek),† Athens, Gin, flour and grist mill	
W. M. Hayes (Limestone Creek),† Mooresville, Gin, flour and grist mill	
W. H. Roberts (Sugar Creek),† Athens, Gin, flour and grist mill	
W. H. Marbut,† Goodsprings, Gin, flour and grist mill	

LOWNDES COUNTY.

G. B. Holley,* Lowndesboro, Flour and grist mill	10
W. N. Bozeman,† Benton, Gin and mill	

MADISON COUNTY.*

Fannie J. Ridley, Haden, Flour and grist mill	8
D. L. Middleton water mill, Gurley, Flour and grist mill	20
Delop's mill, Dan, Flour and grist mill	8
Hardy Keel water mill, Gurley, Flour and grist mill	15
Annie M. Taylor, Hazelgreen, Flour and grist mill	8
Bell Factory mill, Huntsville, Flour and grist mill	25
Key's mill, Keysmill, Flour and grist mill	28
William S. Russell, Madison Station, Flour and grist mill	12
Chas. F. Rountree, Maysville, Flour and grist mill	15
William S. Garvin, Monrovia, Flour and grist mill	15
A. D. & W. E. Rogers, Newmarket, Flour and grist mill	60
Butler Mill Co., Poplarridge, Flour and grist mill	30
Payne & Miller, Huntsville, Flour and grist mill	30
Martin's gristmill, Huntsville, Flour and grist mill	15
H. C. Turner, Dan, Lumber and timber	16
Daily Mercury, Huntsville, Printing and publishing	6

*From report of probate judge. †From U. S. Census, 1900.

Water powers in Alabama, by counties—Continued.

MACON COUNTY.†

	Horse-Power.
H. H. Robinson, Loachapoka, Flour and grist mill	4
M. W. Glass, Societyhill, Flour and grist mill	8
J. O. H. Perry, Tuskegee, Flour and grist mill	20

MARION COUNTY.

The Carter mill,* Ur, Flour and grist mill	5
Bexar Mercantile Co.,* Bexar, Flour and grist mill	8
Eads & Fowler,* Glenallen, Flour and grist mill	12
The Boatwright mill,* Inez, Flour and grist mill	12
Samuel A. & Wm. V. Read,* Eldridge, Flour and grist mill	20
Jasper N. Green & Sons,* Brilliant, Flour and grist mill	20
Elishu Vickery,* Winfield, Flour and grist mill	16
The Shirley mill,* Ur, Flour and grist mill	10
Jesse G. Poe,* Bearcreek, Flour and grist mill	6
Bull, Atkins & Donaldson,* Haleysville, Flour and grist mill	52
Buttahatchee Mill Co.,* Haleysville, Lumber and timber	52
John Cumens,* Haleysville, Lumber and timber	12
Kelly sawmill,* Haleysville, Lumber and timber	15
John R. Phillips,* Bearcreek, Lumber and timber	50
Simon W. Moss,* Winfield, Lumber and timber	36
The Powell Mill and Wool Carder,* Duffey, Woolen goods	50
Albert J. Hamilton (Williams Creek),† Hamilton, Flour and grist mill	
W. C. Gann (Sipsey Creek),† Bexar, Flour and grist mill	
Q. Northington (Sipsey Creek),† Hamilton, Flour and grist mil	
Crane & Riggs (Sipsey Creek),† Delhi, Flour and grist mill	
T. L. Shotts (Bull Mountain Creek),† Shottsville, Flour and grist mill	
I. J. Loyd (Bull Mountain Creek),† Bull Mountain, Flour and grist mill	
D. F. Ballard (Williams Creek),† Hamilton, Flour and grist mill	
James P. Pearce, Buttahatchee River),† Pearces Mills, Flour and grist mill	
James P. Pearce (New River),† Texas, Flour and grist mill	
J. C. Carter (Woods Creek),† Elmira, Flour and grist mill	
James Young (Cantrell Mill Creek),† Hamilton, Flour and grist mill	
W. J. Wright (Barnesville Mill Creek),† Barnesville, Flour and grist mill	
Henry Guin,† Guin, Flour and grist mill	
Tucker Moss (Luxapallila Creek),† Winfield, Flour and grist mill	
D. G. Morrow (Woods Creek),† Elmira, Flour and grist mill	

MARSHALL COUNTY.‡

J. M. Ellison, Preston, Flour and grist mill	4
Mathis mill, Albertville, Flour and grist mill	10
James B. Powell, Columbus City, Flour and grist mill	4
James F. Prentice, Arab, Flour and grist mill	7
P. C. Ragsdale, Uniongrove, Flour and grist mill	10
James P. Smith, Warrenton, Flour and grist mill	10
Scott's mill, Friendship, Flour and grist mill	8
John D. Sumers, Boaz, Flour and grist mill	15
Lakey mill, Bartlett, Flour and grist mill	10
George E. Whisnant & Son, Oleander, Flour and grist mill	10
I. G. Gross, Columbus City, Flour and grist mill	12
Walker & Fowler mills, Friendship, Flour and grist mill	20

*From U. S. Census, 1900. †From report of probate judge. ‡From U. S. Census.

Water powers in Alabama, by counties—Continued.

	Horse-Power.
William J. Copelan, Diamond, Flour and grist mill	5
James Wm. Barclay, Woodville, Flour and grist mill	10
The Winston mill, Meltonsville, Flour and grist mill	12
W. G. Smith Estate, Sidney, Flour and grist mill	10
Jas. M. Selvage, Grant, Flour and grist mill	4
MARENGO COUNTY.*	
Rhodes mill, Sweetwater, Flour and grist mill	12
MOBILE COUNTY.*	
N. Q. Thompson, Citronelle, Flour and grist mill	10
H. Brannan & Son, Pierce, Lumber and timber	30
T. A. Hatter & Son, Creola, Lumber and timber	75
Littleton Lee, Pierce, Lumber and timber	60
MONROE COUNTY.*	
J. B. Solomon, Manistee, Flour and grist mill	15
James H. Simpson, Mexia, Flour and grist mill	10
Benjamin Johnson, Hollinger, Flour and grist mill	15
Andrew Bohanon, Franklin, Flour and grist mill	15
David J. Hatter & Son, Wait, Lumber and timber	60
David J. Hatter & Son, Wait, Lumber and timber	20
C. C. Yarbrough, Monroeville, Lumber and timber	20
MONTGOMERY COUNTY.*	
Daniel's mill, Sellers, Flour and grist mill	25
Montgomery cotton mill, Montgomery, Cotton goods	35
MORGAN COUNTY.*	
Sarah M. McCutcheon, Briscoe, Flour and grist mill	10
PERRY COUNTY.	
Henry C. Nichols (Dobynes Creek),* Theo, Flour and grist mill	20
Mary G. Wallace,* Marion, Flour and grist mill	4
Hodger's mill,* Newbern, Flour and grist mill	15
W. F. Moore,* Marion, Flour and grist mill	4
Downey's sawmill,* Greensboro, Lumber and timber	15
Stevenson's saw and water mills,* Newbern, Lumber and timber	20
Lucinda Washburn (Taylors Creek),* Jericho, Lumber and timber	18
W. T. Downey (Limestone Creek),† Folsom, Gristmill	6
James Wallace (Legroane Creek),† Jericho, Gristmill	8
Dr. J. B. Tucker (Taylors Creek),† Jericho, Gristmill	6
Lucinda Washburn (Taylors Creek),† Jericho, Gristmill	8
S. M. Bolling (Branch of Oakmulgee Creek),† Pinetucky, gristmill	8
C. C. Cosby (Oakmulgee Creek),† Perryville, Gristmill	8
Thomas J. Fountain (Little Creek),† Oakmulgee, Gin, saw and grist mill	8
Pann Patterson (Little Creek),† Oakmulgee, Gin, saw and grist mill	8
Sarah Fountain (Little Creek),† Oakmulgee, Gin, saw, and grist mill	8
Thaddeus Smith (Little Creek),† Active, Gristmill	8
W. M. Eiland (Fords Mill Creek),† Marion, Gristmill	20
J. F. Morton (Potato Patch Creek),† Levert, Gristmill	6

*From U. S. Census, 1900. †From report of probate judge.

Water powers in Alabama, by counties—Continued.

	Horse-Power.
Elijah Smith (Beaver Creek), Bliss, Gristmill	6
Noah Coker (Beaver Dam Creek),† Bethlehem, Gristmill	6
W. A. Fountain (Oakmulgee Creek),† Oakmulgee, Rice mill	10

PICKENS COUNTY.

Richardson & Prichards, Coalfire, Flour and grist mill	25
James Mullenix, Gordo, Flour and grist mill	6
H. B. & A. W. Latham, Carrollton, Flour and grist mill	12
Slaughter's mill, Raleigh, Flour and grist mill	16
W. A. Kerr, Reform, Lumber and timber	10

PIKE COUNTY.*

M. J. Youngblood, Youngblood, Flour and grist mill	110
William F. Ingram, Josie, Flour and grist mill	20
Nancy Cotton (Cotton's mill), Milo, Flour and grist mill	12
Ely Dees & J. D. Murphee, Pronto, Flour and grist mill	20
George W. King, Goshen, Flour and grist mill	30
The Lewis mill, Rodney, Flour and grist mill	24
McQuaggis mill, Ansley, Flour and grist mill	15
George F. Williams, Tatum, Flour and grist mill	4
Slatting's gristmill, Henderson, Flour and grist mill	25
P. A. Motia, Wingard, Flour and grist mill	8
Bowden & Daughtry, Tennille, Flour and grist mill	16
William E. Brown, Josie, Flour and grist mill	10
G. B. Howard, Goshen, Flour and grist mill	20

RANDOLPH COUNTY.*

W. W. Dobson, Wedowee, Flour and grist mill	20
J. H. White & Z. N. Lipham, Clack, Flour and grist mill	11
Mrs. Georgia Gibbs, Wedowee, Flour and grist mill	10
Giles mill, Ofelia, Flour and grist mill	10
Eppie M. White, Bernice, Flour and grist mill	5
Larkin & M. B. Taylor, Lamar, Flour and grist mill	8
Joseph B. Taylor, Roanoke, Flour and grist mill	24
Owins mill, Potash, Flour and grist mill	15
Rogers mill, Ofelia, Flour and grist mill	8
C. A. Prescott, Wedowee, Flour and grist mill	20
H. A. Merrill, Lamar, Flour and grist mill	6
Elizabeth H. Merrill, Micaville, Flour and grist mill	12
J. E. McCosh & Co., Lime, Flour and grist mill	40
William S. McCarley, Graham, Flour and grist mill	20
John H. Landers, Lofty, Flour and grist mill	8
Edward Lavoorn, Flour and grist mill	8
Thomas J. Lavoorn, Hawk, Flour and grist mill	16
Thomas J. Lavoorn, Sr., Newell, Flour and grist mill	8
James L. & John T. Kaylor, Kaylor, Flour and grist mill	60
Henry C. Jordan, Clack, Flour and grist mill	6
J. B. Hammond, Sewell, Flour and grist mill	8
T. M. Halaway, Tolbut, Flour and grist mill	15
Robert H. Harris, Louina, Flour and grist mill	15
Dock Huckaby, Almond, Flour and grist mill	10
Holley's mill, Rock Mills, Flour and grist mill	30
E. C. Heaton, Hawk, Flour and grist mill	10

*From U. S. Census, 1900.

Water powers in Alabama, by counties—Continued.

	Horse-Power.
William N. Gladney, Roanoke, Flour and grist mill	12
A. B. East, Christiana, Flour and grist mill	·2
Adamson & Edwards's mills, Ofelia, Flour and grist mill	25
Bailey Mill, Haywood, Flour and grist mill	12
F. P. Parker, Foresters Chapel, Flour and grist mill	10
John C. Murphy, Gay, Flour and grist mill	2
E. L. Pool, Happyland, Flour and grist mill	20
James M. Kitchens, Rockdale, Flour and grist mill	8
James H. Wright, Jeptha, Flour and grist mill	12
Adamson & Edwards, Ofelia, Lumber and timber	40
William W. Brooks, Lofty, Lumber and timber	15
William A. Camp, Almond, Lumber and timber	10
James L. & John T. Kaylor, Kaylor, Lumber and timber	20
H. H. Stephens, Pencil, Lumber and timber	20
Samuel H. Striplin, Roanoke, Leather, tanned, curried, and finished	6
Wehadkee cotton mills, Rock Mills, Cotton goods	108

RUSSELL COUNTY.

Davis's mill,* Crawford, Flour and grist mill	20
H. R. Dudley,* Seale, Lumber and timber	40
E. M. Anderson (Watermelon Creek),† Seale, Grist mill and gin	20

SHELBY COUNTY.*

W. C. Denson, Pelham, Flour and grist mill	12
William H. Schrader, Shelby, Flour and grist mill	20
William H. Pledger, Pelham, Flour and grist mill	40
Hendrick & Alverson, Vincent, Flour and grist mill	40
David A. Whitfield, Vandiver, Flour and grist mill	10
Brownings mill, Columbiana, Lumber and timber	30

ST. CLAIR COUNTY.*

The Yarbrough mill, Ashville, Flour and grist mill	8
Hare's mill, Ashville, Flour and grist mill	8
John R. Dyke, Wolfcreek, Flour and grist mill	30
Perry E. Wyatt, Coal City, Flour and grist mill	10
Henry A. Palmer, Partlow, Flour and grist mill	10
J. M. McLaughlin, Springville, Flour and grist mill	25
The Machen mill, Partlow, Flour and grist mill	10
The Lindsey mill, Ashville, Flour and grist mill	10
Hill & Foreman, Springville, Flour and grist mill	28
Henderson's mill, Ragland, Flour and grist mill	5
Helm & Truss, Helms, Flour and grist mill	20
Grout's mill, Wolfcreek, Flour and grist mill	10
The Gilchrist mill, Ashville, Flour and grist mill	5
The Cox mill, Ashville, Flour and grist mill	10
Rufus W. Beason, Whitney, Flour and grist mill	11
Rock Bridge mill, Gallant, Lumber and timber mill	20

SUMTER COUNTY.*

E. B. Hearn (Kinterbish Creek), Gaston	40
R. H. Stephens (Kinterbish Creek), Alamuchee	20
R. D. Simmons (Toomsooba Creek), Bells Station	30
R. W. Shaw, Cuba	10

*From U. S. Census, 1900. †From report of probate judge.

Water powers in Alabama, by counties—Continued.

	Horse-Power.
W. H. Walker (Silver Creek), Alamuchee	20
J. U. Gillespie (Coatopa Creek), Coatopa	10

TALLADEGA COUNTY.

Jefferson Roberson,* Fayetteville, Flour and grist mill	10
J. C. Brock,* Eastaboga, Flour and grist mill	12
Riser & Bro.,* Talladega, Flour and grist mill	40
Shock E. Jemison,* Sunnyside, Flour and grist mill	15
Vincent's mill,* Talladega, Flour and grist mill	25
O. F. Luttrell,* Talladega, Flour and grist mill	40
Riddle mills,† Waldo, Flour and grist mill	16
J. F. Smith,* Eastaboga, Flour and grist mill	40
John W. Thweatt,* McFall, Flour and grist mill	12
J. B. Turner,* McFall, Flour and grist mill	15
Allison's mill,* Talladega, Flour and grist mill	60
J. F. Smith,* Eastaboga, Lumber and timber	40
Cragdale mill,* Talladega, Lumber and timber	40
J. B. Turner,* McFall, Lumber and timber	20
Priebes mill (Choccolocco Creek),* Jenifer, Gristmill	200
J. F. Smith's mill (Choccolocco Creek),* Oxford, Gristmill	225
B. Schmidt's mill (Choccolocco Creek),* Lincoln, Gristmill	200
Craig's mill (Choccolocco Creek),* Oxford, Gristmill	150
Wilson's mill (Choccolocco Creek),* Jenifer, Gristmill	150
Eureka mills (Choccolocco Creek),* Eureka, Gristmill	150
Turner's mill (Chehawhaw Creek),* McFall, Gristmill	150
Kants mill (Talladega Creek),* Chandler Springs, Gristmill	50
Riddle's mill (Talladega Creek),* Waldo, Gristmill	75
Taylor's mill (Talladega Creek),* Talladega, Gristmill	150
Reynold's mill (Talladega Creek),* Nottingham, Gristmill	150
Allison's mill (Talladega Creek),* Talladega, Gristmill	75
Duncan's mill (Talladega Creek),* Alpine, Gristmill	75
Baker's mill (Talladega Creek),* Kymulga, Gristmill	100
Vincent's mill (Crooked Creek),* Sylacauga, Gristmill	50
Oden's mill (Short Creek),* Sylacauga, Gristmill	75
Jemison's mill (Kelly Creek),* Sunnyside, Gristmill	50
Camp & Sons' mill (Salt Creek),* Hopeful, Gristmill	50
Robinson's mill (Cedar Creek),* Fayetteville, Gristmill	50
Lackey's mill (Horse Creek),* Ironaton, Gristmill	25

NEW DEVELOPMENT.

Alabama Power Co. at Jackson Shoals on Talladega Creek, Power for the company's lines	2,000

TALLAPOOSA COUNTY.†

George Stewart, Thaddeus, Flour and grist mill	12
John W. Britt, Jacksons Gap, Flour and grist mill	20
Benjamin F. Jarvis, Yates, Flour and grist mill	12
T. J. Hamlet, Hamlet, Flour and grist mill	15
T. W. Whitman, Dadeville, Flour and grist mill	20
Sanford Milling and Manufacturing Co., Dadeville, Flour and grist mill	25
John W. Hay, Camphill, Flour and grist mill	15
John B. Calhoun, Camphill, Flour and grist mill	8
Hammond's mill, Dadeville, Flour and grist mill	20

*From report of probate judge.

Water powers in Alabama, by counties—Continued.

	Horse-Power.
Hodnett grist and flour mill, Acme, Flour and grist mill	16
Thomas L. Bulger, Dadeville, Flour and grist mill	15
Vines mills, Easton, Flour and grist mill	40
A. T. & H. C. Vickers, Newsite, Flour and grist mill	20
J. C. Street, Anniston, Flour and grist mill	25
Shephard Bros. & Co., Tohopeka, Flour and grist mill	10
G. W. Stewart, Thadeus, Flour and grist mill	25
Albert J. Holloway, Alexander, Flour and grist mill	20
Mrs. Milliner, Mary, Flour and grist mill	25
John L. Patterson, Hackneyville, Flour and grist mill	12
Thomas B. Griffin, Matilda, Flour and grist mill	10
Daviston mill, Daviston, Flour and grist mill	8
Lamberth Dewberry, Logpit, Flour and grist mill	20
Silver Shoals mill, Buttston, Flour and grist mill	80
M. R. Hays & Bro., Notasulga, Flour and grist mill	40
Farrows flour and grist mill, Susanna, Flour and grist mill	60
J. H. Yarbrough, Hackneyville, Flour and grist mill	12
T. F. Garnett, Tallassee, Lumber and timber	20
G. W. Stewart, Thaddeus, Lumber and timber	20

WINSTON COUNTY.

Richard H. Blake,* Houston, Flour and grist mill	8
Thomas O. Partridge,* Elk, Flour and grist mill	10
Wm. D. Shadix (Sandy Creek),* Double Springs, Flour and grist mill	4
George D. Wilson,* Haleysville, Flour and grist mill	8
Manna A. Posey,* Motes, Flour and grist mill	10
Martin A. & Martha Peak,* Peaks Mill, Flour and grist mill	10
Milligan mill,* Double Springs, Flour and grist mill	10
James Cantrell,* Addison, Flour and grist mill	4
Burks mill,* Cranal, Flour and grist mill	10
Nauvoo mill (Blackwater Creek),† Nauvoo, Grist mill and gin	
Anderson Ward mill (Clear Creek),† Haleysville, Flour and grist mill	
J. Calvin Cagle (Clear Creek),† Double Springs, Saw, flour and grist mill and gin	
Jonathan Bartin mill (Clear Creek),† Deer, Gristmill	
Hadder mill (Clear Creek),† Double Springs, Gristmill	
Posey mill (Clear Creek),† Motes, Gristmill, saw, and gin	
S. D. Spain (Clear Creek),† Malta, Gristmill, saw, and gin	
Gus Posey mill (Clear Creek),† Elk, Gristmill, saw, and gin	
Wm. Dodd (Splunge Creek),† Natural Bridge, Gristmill, saw, and gin	
Kelley mill (Blackwater Creek),† Lynn, Gristmill, saw, and gin	
Peaks mill (Grindstone Creek),† Peaks Mill, Gristmill, saw, and gin	
Jack Curtis (Sandy Creek),† Double Springs, Gristmill, saw, and gin	
Manley Payne (Beech Creek),† Gumpond, Gristmill, saw, and gin	
Christian mill (Christian Creek),† Peaks Mill, Grist and saw mill	

*From U. S. Census, 1900. †From report of probate judge.

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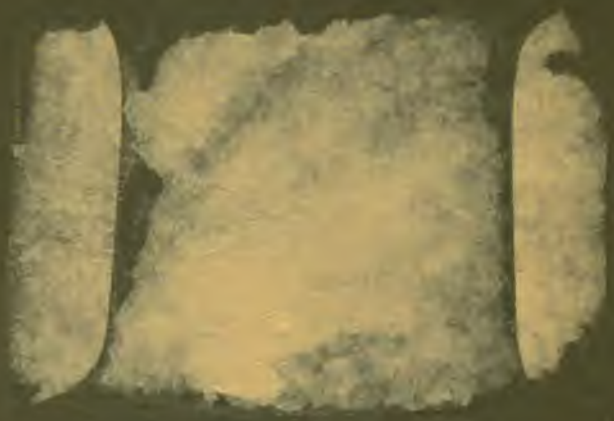
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